

Automation and Control Essentials Catalog 2023

Everything you need for your control panels

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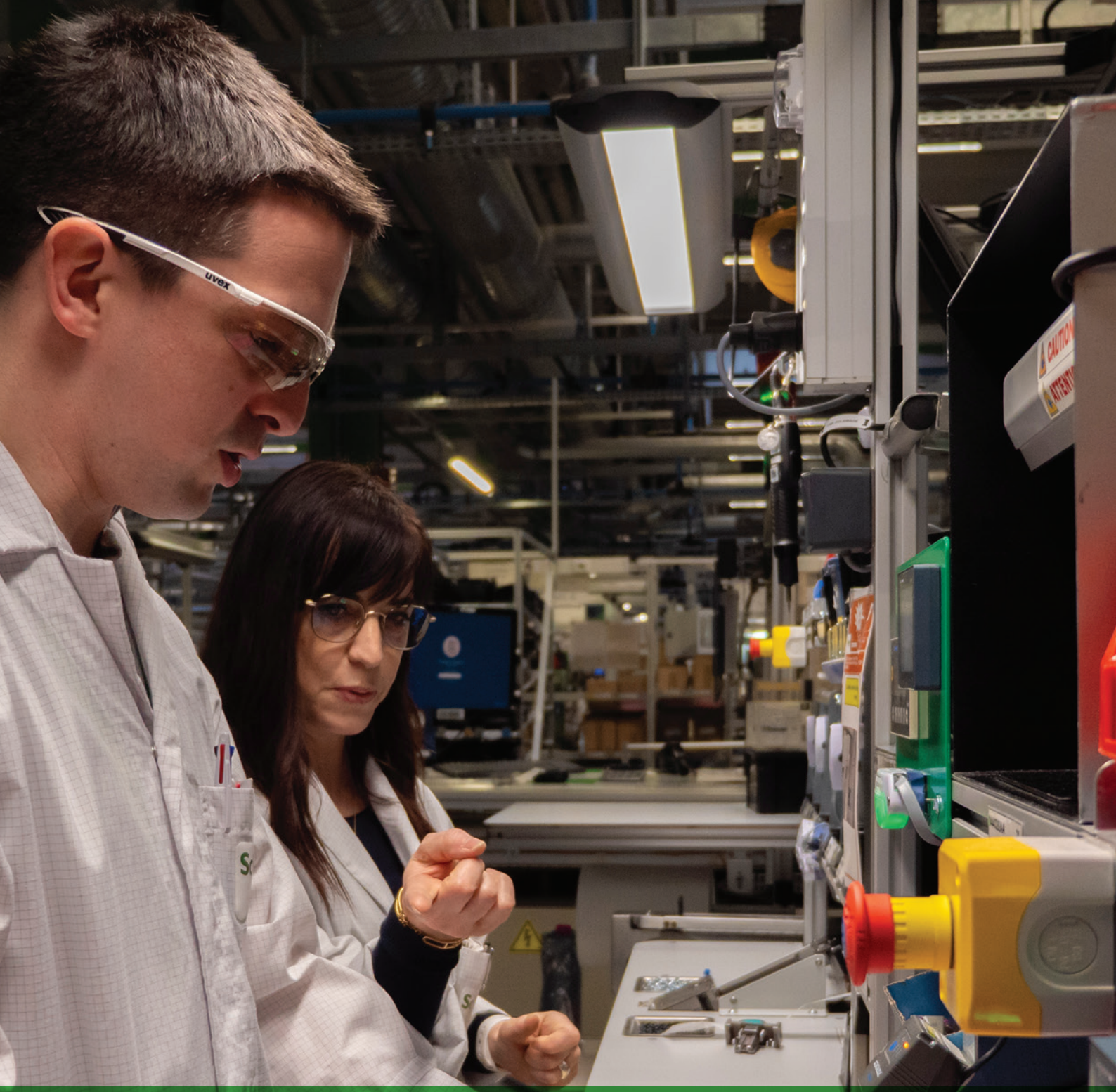


The Essentials for your control panels

You will find all the essentials you need for high-quality control panels in this catalog. Choose the right products to set up your equipment with ease, complete your work faster, and give your business a boost.

New 2023 product highlights



- Harmony XB4/XB5 Universal LED Block
- **TeSys** Giga
- Edge Box HMI
- ComPacT NSX
- Multi**9**
- ComPacT NSXm
- **TeSys** Deca

Sustainability

Life Is On Schneider Electric

#1 world's most
SUSTAINABLE
corporation (Corporate Knights, 2021)



We commit to
Act for a **climate** positive world
Be efficient with **resources**
Live up to our principles of **trust**
Create **equal** opportunities
Harness the power of all **generations**
Empower **local** communities

Discover more at
se.com/sustainability

Emergency Stop

Schneider Electric offers Harmony emergency stop button in both metal and plastic offer to meet your safety requirements. The offer has 3 types of release mechanisms including turn-to-release, pull-to-release, and key release operation, and 3 head sizes of 30mm, 40mm, and 60mm.

- Robust: Designed as per international standards for high performance
- Comprehensive: Wide modular range to suit machines and operator safety
- Flexible: Simple modular design facilitates post-installation servicing, modification, and adaption of machines
- Efficient: Ergonomic design and illuminated offer to improve operator efficiency
- Operator oriented: Monitoring contact to ensure correct installation



Relays : Complete offer

Schneider Electrics has the most complete relay offer to meet your wide range of applications. Our Harmony relays include conventional Electromechanical Relays, Solid State Relays, Control Relays, Timer Relays, and NFC Control & Timer Relays.
Enhance operational efficiency and optimize equipment availability with Harmony relays, which are designed, manufactured and tested to meet your needs for both wired logic functions and PLC interfaces.

- Comprehensive: A wide range to address your standard or performance needs
- Reliable: High product performance to ensure machine and system availability
- Time saving: Innovative features to improve user experience. Embedded test button to ease troubleshooting and commissioning
- A simplicity-driven design: To deliver maximum ease-of-use throughout the life cycle
- Green: Compliant to international certifications, and environment friendly



Harmony Control Relays - Near Field Communication (NFC) and conventional Control Relays



Harmony Timer Relays - Near Field Communication (NFC) and conventional Timer Relays

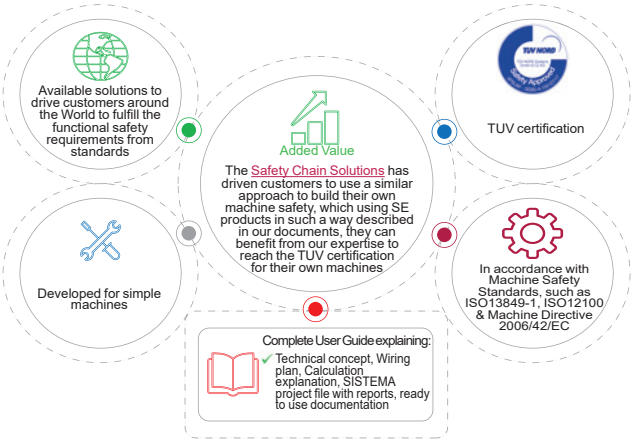


Harmony Electromechanical Relays - Interface, miniature, and power electromechanical relays



Harmony Solid State Relays - Slim interfaces, Modular DIN rail and Panel mount solid state relays

Safety Chain Solutions



Universal LED block for all illuminated version

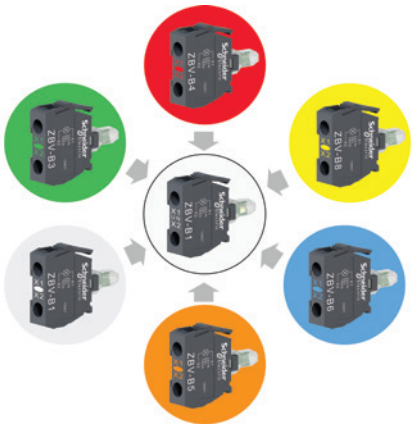
Harmony streamline the structure of pilot lights and actuators using LED by moving from 6 colored LEDs to a universal source of luminosity.

A unique technology that leads to the best lighting solution.

- Divide by 6 the stocked part numbers (for a given wiring and voltage solution)
- Astonishing intensity and contrast with enhanced color purity
- Reduce conception and installation time
- Simplified maintenance
- Avoid errors on pairing between heads and light blocks, nomenclatures are simplified

The universal light blocks are now identifiable in the catalog with the below logo as well as physically on the product with the two letters ``UN''.

UN
Universal
for all color heads



EcoStruxure™ Motor Control Configurator

Motors are critical assets, and also big consumers of electrical energy using on average 60% of the electrical energy in industrial businesses.
A robust, tested and validated architectural approach to your motor management unleashes more safety and performance for your motors, enabling advanced asset management and energy efficiency. With an extensive offer portfolio, competencies and know-how, Schneider Electric can help you build a sustainable motor integration solution across the electrical system and the industrial processes.
A dedicated application for calculations and motor management solution selection for high powered LV and MV motor applications. Save time for equipment sizing while focusing on the essentials: how to start, protect and manage power quality and monitor your motor and application.



Start using now: EcoStruxure™ Motor Control Configurator

Start using now: EcoStruxure™ Motor Management Design

Learn more about our motor control applications


Get all the products
you need from a distributor
close to you

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01. Harmony pushbuttons, switches, pilot lights and signaling devices











Harmony XVU components for Ø 60 modular tower lights

1 IP65 light modules (for association)

Voltage		24 V							
LED unit type		High brightness							Pulse signal
Color		Green	Red	Orange	Blue	White	Yellow	Multi-color	Multi-color
Reference	Steady	**XVUC23**	**XVUC24**	**XVUC25**	**XVUC26**	**XVUC27**	**XVUC28**	**XVUC29**	**XVUC29P**
	Blinking	**XVUC43**	**XVUC44**	**XVUC45**	**XVUC46**	**XVUC47**	**XVUC48**	–	–
	High flashing	**XVUC63**	**XVUC64**	**XVUC65**	**XVUC66**	**XVUC67**	**XVUC68**	–	–

2 IP54 audible units (for association)

Voltage	24 V			
Unit type	Buzzer		Sound	Sound with pulse signal
Color	Silver	Dark grey		
Reference	**XVUC9SQ**	**XVUC9S**	**XVUC9V**	**XVUC9VP**

3 IP65 body units with top cover (for association)

Voltage	24 VAC/VDC		100...240 VAC	
Color	Silver	Dark grey		
Type	–	–	NPN	PNP
Reference	**XVUC21BQ**	**XVUC21B**	**XVUC21M**	**XVUC21MP**

Mounting bases for horizontal support (for association)

Base type	Fixing plates					Direct fixing plates 5
	With fixed length aluminum pole				With height ajustment aluminum pole *(1)*	
	100 mm/3.937 in 4		400 mm/ *15.748 in*	800 mm/ *31.496 in*		
Color	Silver	Dark grey				Silver / Dark grey
Reference	**XVUZ02Q**	**XVUZ02**	**XVUZ400**	**XVUZ800**	**XVUZ05** *(2)*	**XVUZ01Q** / **XVUZ01** *(3)*
	–	–	–	–	–	– / **XVUZ03** *(4)*
	–	–	–	–	–	– / **XVUZ04** *(5)*

6 Mounting bases for vertical support (for association)

Base type	Fixing plates for mounting on vertical support (aluminum pole + metal bracket - IP42)			Fixing plates for vertical support 7
	100 mm	250 mm	400 mm	100 mm
Color	Dark grey	Dark grey	Dark grey	Dark grey
Reference	**XVUZ100T**	**XVUZ250T**	**XVUZ400T**	**XVUZ12** *(7)*

Accessories (for association)

Unit type	Body extender		Flexible mounting unit for use on horizontal or vertical support, IP55	1/2" NPT conduit adaptor for customer supplied tubing 8
Color	Dark grey	Silver	Dark grey	Dark grey
Reference	**XVUC020**	**XVUC020Q**	**XVUZ06** *(6)*	**XVUZ00**

(1) Pole height adjustable from 210 to 385 mm (2) For use with DC body unit only
(3) 3-pin mounting (4) 2-pin mounting (5) 4-pin mounting (6) Only compatible with direct fixing plates
(7) Compatible with all mounting bases for horizontal support except XVUZ01, XVUZ01Q, XVUZ02, and XVUZ04.




Harmony XVSV complete units

XVSV sound modules

Size	DIN 72			DIN 96				
Voltage	12 - 24 VDC			12 - 24 VDC			100 - 230 VAC	
Color	Dark grey		White	Dark grey		White	Dark grey	White
Wiring	NPN	PNP	NPN	NPN	PNP	NPN	NPN	NPN
Reference	**XVSV7BBN**	**XVSV7BBP**	**XVSV7BWN**	**XVSV9BBN**	**XVSV9BBP**	**XVSV9BWN**	**XVSV9MBN**	**XVSV9MWN**
Wall mounting plate (option)	**XVSZ016**							



Illuminated units for incandescent bulbs or LEDs

Illuminated units with steady light signaling							
Color		Green	Red	Orange	Blue	White	Yellow
Light source (to be ordered separately)	Incandescent bulb 7 W max. or LED	**XVBC33**	**XVBC34**	**XVBC35**	**XVBC36**	**XVBC37**	**XVBC38**
Illuminated units with integral flashing light signaling							
Color		Green	Red	Orange	Blue	White	Yellow
Light source (to be ordered separately)	Incandescent bulb 7 W max., 24 V ∿, 24…48 V ⎓ or LED	**XVBC4B3**	**XVBC4B4**	**XVBC4B5**	**XVBC4B6**	**XVBC4B7**	**XVBC4B8**
	Incandescent bulb 7 W max., 24 V ∿, 48…230 V ∿ or LED	**XVBC4M3**	**XVBC4M4**	**XVBC4M5**	**XVBC4M6**	**XVBC4M7**	**XVBC4M8**



Illuminated units with integral LED

Light source voltage 24 V ⎓							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	**XVBC2B3**	**XVBC2B4**	**XVBC2B5**	**XVBC2B6**	**XVBC2B7**	**XVBC2B8**
	Flashing	**XVBC5B3**	**XVBC5B4**	**XVBC5B5**	**XVBC5B6**	**XVBC5B7**	**XVBC5B8**
Light source voltage 120 V ∿							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	**XVBC2G3**	**XVBC2G4**	**XVBC2G5**	**XVBC2G6**	**XVBC2G7**	**XVBC2G8**
	Flashing	**XVBC5G3**	**XVBC5G4**	**XVBC5G5**	–	–	–
Light source voltage 230 V ∿							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	**XVBC2M3**	**XVBC2M4**	**XVBC2M5**	**XVBC2M6**	**XVBC2M7**	**XVBC2M8**
	Flashing	**XVBC5M3**	**XVBC5M4**	**XVBC5M5**	**XVBC5M6**	**XVBC5M7**	**XVBC5M8**



Illuminated units with integral “flash” discharge tube

Light source voltage 24 V ⎓							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	5 Joule “flash” discharge tube	**XVBC6B3**	**XVBC6B4**	**XVBC6B5**	**XVBC6B6**	**XVBC6B7**	**XVBC6B8**
	10 Joule “flash” discharge tube	**XVBC8B3**	**XVBC8B4**	**XVBC8B5**	**XVBC8B6**	**XVBC8B7**	**XVBC8B8**
Light source voltage 120 V ∿							
Color		Green	Red	Orange	Blue	Yellow	
Reference	5 Joule “flash” discharge tube	–	**XVBC6G4**	**XVBC6G5**	–	**XVBC6G8**	
	10 Joule “flash” discharge tube	**XVBC8G3**	**XVBC8G4**	**XVBC8G5**	**XVBC8G6**	**XVBC8G8**	
Light source voltage 230 V ∿							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	5 Joule “flash” discharge tube	**XVBC6M3**	**XVBC6M4**	**XVBC6M5**	**XVBC6M6**	**XVBC6M7**	**XVBC6M8**
	10 Joule “flash” discharge tube	–	**XVBC8M4**	**XVBC8M5**	**XVBC8M6**	**XVBC8M7**	**XVBC8M8**

Harmony XVB signaling solutions and Harmony XVR3 beacon lights

1 

2 



3 

4 

5 

1 Audible units

Unit type	Buzzer, 90 dB at 1 m				
Unit description	Adjustable: 70 or 90 dB, continuous or intermittent				
Voltage	12…48 V DC and AC			120…230 V ∿	
Reference	**XVBC9B**			**XVBC9M**	

2 Base units (for direct or tube fixing)

Unit type	Base unit + cover with bottom or side cable entry	Base unit only with bottom or side cable entry	Base unit + cover with side cable entry	Base unit + cover with bottom entry, pre-cabled (length 1 m), and equipped with M12 end connector
Application	Use with banks without discharge tube unit (order separately)	Use with banks with discharge tube unit (order separately)	All types of banks. Can be used with AS-interface connection	
Reference	**XVBC21**	**XVBC07**	**XVBC21A**	**XVBC21B**

Accessories specific to XVBC indicator banks

Unit type	Cover only 3		Fixing plate for use on horizontal support		Fixing plate for use on vertical support	
Material	Plastic		Plastic		Zamak	
Application	XVBC2, XVBC3, XVBC4, XVBC5, and XVBC9		Ø 25 mm aluminum support tube		Base unit (direct mounting), fixing plate XVBZ01 or fixing bases XVBZ0	
Reference	**XVBC081**		**XVBZ01**		**XVBC12** 4	

Unit type	Fixing bases comprising Ø 25 mm aluminum support tube glued into a black plastic fixing plate					
Color	Black aluminum	Aluminum	Black aluminum	Aluminum	Black aluminum	Aluminum
Height under base unit (mm)	80		380		780	
5 **Reference**	**XVBZ02**	**XVBZ02A**	**XVBZ03**	**XVBZ03A**	**XVBZ04**	**XVBZ04A**

Unit type	Support tube concealment cover		Adapter for side entry through base unit
Material	ABS	ABS	ABS
Application	Support tubes XVBZ02, XVBZ02A	Support tubes XVBZ03, XVBZ03A	13P cable gland
Reference	**XVBC020**	**XVBC030**	**XVBC14**

Unit type	Incandescent bulbs BA 15d base fitting				
Voltage	12 V	24 V	48 V	120 V	230 V
Power	7 W	6.5 W	6 W	7 W	7 W
Reference	**DL1BEJ**	**DL1BEB**	**DL1BEE**	**DL1BEG**	**DL1BEM**

Unit type	LEDs BA 15d base fitting				
Color	Green	Red	Orange	Blue	Yellow
Voltage	24 V ⎓				
Reference	**DL1BDB3**	**DL1BDB4**	**DL1BDB5**	**DL1BDB6**	**DL1BDB8**

Harmony XVR3 pre-cabled motorless rotating/flashing beacons

6 

6 Beacon lights with buzzer, multi-functional beacon lights

LED unit type	Beacon				
Color	Green	Red	Orange	Blue	
Voltage	12-24 VDC				
Reference	**XVR3B03S**	**XVR3B04S**	**XVR3B05S**	**XVR3B06S**	
Voltage	100-230 VAC				
Reference	**XVR3M03S**	**XVR3M04S**	**XVR3M05S**	**XVR3M06S**	

Beacon lights without buzzer

Color	Green	Red	Orange	Blue	
LED unit type	Beacon				
Voltage 12-24 VDC	**XVR3B03**	**XVR3B04**	**XVR3B05**	**XVR3B06**	
48 VDC	**XVR3E03**	**XVR3E04**	**XVR3E05**	**XVR3E06**	
100-230 VAC	**XVR3M03**	**XVR3M04**	**XVR3M05**	**XVR3M06**	

Harmony XB4 metal pushbuttons



1 Pushbuttons with flush push, unmarked

Color	○ White	● Black	● Green	● Red	● Yellow	● Blue
Contact	NO			NC	NO	
Connection	Screw clamp terminals					
Complete product	**XB4BA11**	**XB4BA21**	**XB4BA31**	**XB4BA42**	**XB4BA51**	**XB4BA61**
Head	**ZB4BA1**	**ZB4BA2**	**ZB4BA3**	**ZB4BA4**	**ZB4BA5**	**ZB4BA6**
Complete flush mounting head in 30.5 mm diameter hole	**XB4FA11**	**XB4FA21**	**XB4FA31**	**XB4FA42**	**XB4FA51**	**XB4FA61**
Flush mounting head in 30.5 mm diameter hole	**ZB4FA1**	**ZB4FA2**	**ZB4FA3**	**ZB4FA4**	**ZB4FA5**	**ZB4FA6**
Body	**ZB4BZ101**			**ZB4BZ102**	**ZB4BZ101**	

2 Booted pushbuttons with flush push, unmarked

Complete product	–	**XB4BP21**	**XB4BP31**	**XB4BP42**	**XB4BP51**	**XB4BP61**
Head	**ZB4BP1**	**ZB4BP2**	**ZB4BP3**	**ZB4BP4**	**ZB4BP5**	**ZB4BP6**
Body	**ZB4BZ101**			**ZB4BZ102**	**ZB4BZ101**	

3 Pushbuttons with flush push, marked

Color	○ White	● Black	● Green	● Red	● Green	● Red
Marking	⬆	⇩	"I" (white)	"O" (white)	"START" (white)	"STOP" (white)
Contact	NO			NO + NC	NO	NO + NC
Connection	Screw clamp terminals					
Complete product	**XB4BA3341**	**XB4BA3351**	**XB4BA3311**	–	–	–
Head	**ZB4BA334**	**ZB4BA335**	**ZB4BA331**	**ZB4BL432** *(1)*	**ZB4BA333**	**ZB4BL434**
Complete flush mounting head in 30.5 mm diameter hole	**XB4FA3341**	**XB4FA3351**	**XB4FA3311**	**XB4FL4325** *(1)*	–	–
Flush mounting head in 30.5 mm diameter hole	**ZB4FA334**	**ZB4FA335**	**ZB4FA331**	**ZB4FL432** *(1)*	**ZB4FA333**	**ZB4FL434**
Body	**ZB4BZ101**			**ZB4BZ105**	**ZB4BZ101**	**ZB4BZ105**



4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	● Red				
Contact	NO + NC Push-pull	1 NC monitoring Turn to release	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals				
Complete product	**XB4BT845**	**XB4BS8446**	**XB4BS8444**	**XB4BS8445**	**XB4BS9445**
Head	**ZB4BT84**		**ZB4BS844**		**ZB4BS944**
Body	**ZB4BZ105**	**ZBE302 + ZB4BZ009**	**ZB4BZ104**	**ZB4BZ105**	

5 Ø 40 mushroom head pushbutton, spring return

Color	● Black	● Green	● Blue	● Yellow
Contact	NO Push-pull			
Connection	Screw clamp terminals			
Complete product	**XB4BC21**	–	–	–
Head	**ZB4BC2**	**ZB4BC3**	**ZB4BC6**	**ZB4BC5**
Body	**ZB4BZ101**			

6 Illuminated ring for Emergency stop *(2)*

Color of the illuminated ring		○ White / ● Red	● Red		
Power supply		24 VAC/VDC		110… 120 VAC	230… 240 VAC
Complete product for standard mounting	Unmarked	**ZBY9W3B140**	**ZBY9W2B140**	**ZBY9W2G140**	**ZBY9W2M140**
	EMERGENCY STOP	**ZBY9W3B330**	**ZBY9W2B330**	**ZBY9W2G330**	**ZBY9W2M330**
	ARRET D'URGENGE	**ZBY9W3B130**	**ZBY9W2B130**	**ZBY9W2G130**	**ZBY9W2M130**
	PARADA DE EMERGENCIA	**ZBY9W3B430**	**ZBY9W2B430**	**ZBY9W2G430**	**ZBY9W2M430**
	NOT-HALT	**ZBY9W3B230**	**ZBY9W2B230**	**ZBY9W2G230**	**ZBY9W2M230**

(1) With projecting push.
(2) For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo ⓥ has been added.

Harmony XB4 metal pushbuttons





1 Pilot lights with universal LED

		White	Green	Red	Orange	Blue	Yellow
Color							
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	**XB4BVB1**	**XB4BVB3**	**XB4BVB4**	**XB4BVB5**	**XB4BVB6**	**ZBVB1** *(1)*
	110...120 VAC	**XB4BVG1**	**XB4BVG3**	**XB4BVG4**	**XB4BVG5**	**XB4BVG6**	**ZBVG1** *(1)*
	230...240 VAC	**XB4BVM1**	**XB4BVM3**	**XB4BVM4**	**XB4BVM5**	**XB4BVM6**	**ZBVM1** *(1)*
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	**XB4FVB1**	**XB4FVB3**	**XB4FVB4**	**XB4FVB5**	**XB4FVB6**	**ZBVB1** *(2)*
	110…120 VAC	**XB4FVG1**	**XB4FVG3**	**XB4FVG4**	**XB4FVG5**	**XB4FVG6**	**ZBVG1** *(2)*
	230…240 VAC	**XB4FVM1**	**XB4FVM3**	**XB4FVM4**	**XB4FVM5**	**XB4FVM6**	**ZBVM1** *(2)*

2 Illuminated pushbuttons with flush push and universal LED

		White	Green	Red	Orange	Blue	Yellow
Color							
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	**XB4BW31B5**	**XB4BW33B5**	**XB4BW34B5**	**XB4BW35B5**	**XB4BW36B5**	**ZBVB1** *(3)*
	110...120 VAC	**XB4BW31G5**	**XB4BW33G5**	**XB4BW34G5**	**XB4BW35G5**	**XB4BW36G5**	**ZBVG1** *(3)*
	230...240 VAC	**XB4BW31M5**	**XB4BW33M5**	**XB4BW34M5**	**XB4BW35M5**	**XB4BW36M5**	**ZBVM1** *(3)*
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	**XB4FW31B5**	**XB4FW33B5**	**XB4FW34B5**	**XB4FW35B5**	**XB4FW36B5**	**ZBVB1** *(4)*
	110…120 VAC	**XB4FW31G5**	**XB4FW33G5**	**XB4FW34G5**	**XB4FW35G5**	**XB4FW36G5**	**ZBVG1** *(4)*
	230…240 VAC	**XB4FW31M5**	**XB4FW33M5**	**XB4FW34M5**	**XB4FW35M5**	**XB4FW36M5**	**ZBVM1** *(4)*







3 Selector switches and key switches

		2 Stay put	2 Spring return	2 Stay put	3 Stay put	3 Spring return
Positions (number and type)						
Contact		NO		NO + NC	2 NO	
Connection		Screw clamp terminals				
Complete product	Black handle	**XB4BD21**	**XB4BD41**	**XB4BD25**	**XB4BD33**	**XB4BD53**
	Long black handle	**XB4BJ21**	–	–	**XB4BJ33**	**XB4BJ53**
	Key switch (No. 455)	**XB4BG21**	**XB4BG61**	–	**XB4BG33**	–
Complete flush mounting head in 30.5 mm diameter hole	Black	**XB4FD21**	**XB4FD41**	**XB4FD25**	**XB4FD33**	**XB4FD53**
	Long black handle	**XB4FJ21**	–	–	**XB4FJ33**	**XB4FJ53**
	Key switch (No. 455)	**XB4FG21**	**XB4FG61**	–	**XB4FG33**	–

4 Illuminated selector switches with universal LED and colored handle

		2			3		
Stay put positions							
Color		Green	Red	Orange	Green	Red	Orange
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	**XB4BK123B5**	**XB4BK124B5**	**XB4BK125B5**	**XB4BK133B5**	**XB4BK134B5**	**XB4BK135B5**
	110...120 VAC	**XB4BK123G5**	**XB4BK124G5**	**XB4BK125G5**	**XB4BK133G5**	–	–
	230...240 VAC	**XB4BK123M5**	**XB4BK124M5**	**XB4BK125M5**	**XB4BK133M5**	**XB4BK134M5**	**XB4BK135M5**
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	**XB4FK123B5**	**XB4FK124B5**	**XB4FK125B5**	**XB4FK133B5**	**XB4FK134B5**	**XB4FK135B5**
	110…120 VAC	**XB4FK123G5**	**XB4FK124G5**	**XB4FK125G5**	**XB4FK133G5**	**XB4FK134G5**	**XB4FK135G5**
	230…240 VAC	**XB4FK123M5**	**XB4FK124M5**	**XB4FK125M5**	**XB4FK133M5**	**XB4FK134M5**	**XB4FK135M5**

5 Double- and triple-headed pushbuttons

	1 flush and 1 projecting	2 flush	1 flush and 1 projecting	2 flush	2 flush + 1 red central projecting	
Type						
Contact	NO + NC		NO + NC with 24 V pilot light		2 NO + NC	
Connection	Screw clamp terminals					
Complete product	**XB4BL73415**	–	**XB4BW73731B5**	–	**XB4BA731327**	–
Head	**ZB4BL7341**	**ZB4BA7121**	**ZB4BW7L3741**	**ZB4BW7A1721**	–	**ZB4BA71124**
Body	**ZB4BZ105**		**ZB4BZ105 + ZBVB1**		**ZB4BZ103 + ZBE102**	

(1) To get a complete pilot light, this body must be combined with a ZB4BZ009 socket and a ZB4BV083 head (to be ordered separately).
(2) To get a complete pilot light, this body must be combined with ZB4BZ009 socket and ZB4FV083 head (to be ordered separately).
(3) To get a complete illuminated pushbutton, this body must be combined with a ZB4BZ009 socket and a ZB4BW383 head (to be ordered separately).
(4) To get a complete pilot light, this body must be combined with ZB4BZ009 socket and ZB4FW383 head (to be ordered separately).

Harmony XB5 plastic pushbuttons







1 Pushbuttons with flush push, unmarked

Color	○ White	● Black	● Green	● Red	● Yellow	● Blue
Contact	NO			NC	NO	
Connection	Screw clamp terminals					
Complete product for standard mounting	**XB5AA11**	**XB5AA21**	**XB5AA31**	**XB5AA42**	**XB5AA51**	**XB5AA61**
Standard mounting head	**ZB5AA1**	**ZB5AA2**	**ZB5AA3**	**ZB5AA4**	**ZB5AA5**	**ZB5AA6**
Complete flush mounting head in 30.5 mm diameter hole	**XB5FA11**	**XB5FA21**	**XB5FA31**	**XB5FA42**	**XB5FA51**	**XB5FA61**
Flush mounting head in 30.5 mm diameter hole	**ZB5FA1**	**ZB5FA2**	**ZB5FA3**	**ZB5FA4**	**ZB5FA5**	**ZB5FA6**
Body	**ZB5AZ101**			**ZB5AZ102**	**ZB5AZ101**	

2 Booted pushbuttons with flush push, unmarked

Complete product for standard mounting	–	**XB5AP21**	**XB5AP31**	**XB5AP42**	**XB5AP51**	**XB5AP61**
Standard mounting head	–	**ZB5AP2**	**ZB5AP3**	**ZB5AP4**	**ZB5AP5**	**ZB5AP6**
Body	–	**ZB5AZ101**		**ZB5AZ102**	**ZB5AZ101**	

3 Pushbuttons with flush push, marked

Color	○ White	● Black	● Green	● Red	● Green	● Red
Marking	⬆	⇩	"I" (white)	"O" (white)	"START" (white)	"STOP" (white)
Contact	NO			NC	NO	NC
Connection	Screw clamp terminals					
Complete product for standard mounting	**XB5AA3341**	**XB5AA3351**	**XB5AA3311**	–	–	–
Standard mounting head	**ZB5AA334**	**ZB5AA335**	**ZB5AA331**	**ZB5AL432** *(1)*	**ZB5AA333**	**ZB5AL434**
Complete flush mounting head in 30.5 mm diameter hole	**XB5FA3341**	**XB5FA3351**	**XB5FA3311**	**XB5FL4322** *(1)*	–	–
Flush mounting head in 30.5 mm diameter hole	**ZB5FA334**	**ZB5FA335**	**ZB5FA331**	**ZB5FL432** *(1)*	**ZB5FA333**	**ZB5FL434** *(1)*
Body	**ZB5AZ101**			**ZB5AZ102**	**ZB5AZ101**	**ZB5AZ102**









4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	● Red				
Contact	NO + NC Push-pull	1 NC monitoring Turn to release	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals				
Complete product for standard mounting	**XB5AT845**	**XB5AS8446**	**XB5AS8444**	**XB5AS8445**	**XB5AS9445**
Standard mounting head	**ZB5AT84**		**ZB5AS844**		**ZB5AS944**
Body	**ZB5AZ105**	**ZBE302 + ZB5AZ009**	**ZB5AZ104**	**ZB5AZ105**	

5 Ø 40 mushroom head pushbuttons, spring return

Color	● Black	● Green	● Blue	● Yellow
Contact	NO Push-pull			
Connection	Screw clamp terminals			
Complete product for standard mounting	**XB5AC21**	–	–	–
Standard mounting head	**ZB5AC2**	**ZB5AC3**	**ZB5AC6**	**ZB5AC5**
Body	**ZB5AZ101**			

6 Illuminated Emergency stop head

Color of the illuminated ring	○ White / ● Red		● Red			
Power supply	24 VAC/VDC				110-120 VAC	230-240 VAC
Contact	NO + 2NC Turn to release	NO + NC Turn to release	NO + 2NC Turn to release	NO + NC Turn to release	NO + 2NC Turn to release	
Connection	Screw clamp terminals					
Complete product for standard mounting	**XB5AS84W3B41**	**XB5AS84W3B5**	–	–	–	–
Standard mounting head	**ZB5AS84W3B**		**ZB5AS84W2B**		**ZB5AS84W2G**	**ZB5AS84W2M**
Body	**ZB5AZ141**	**ZB5AZ105**	**ZB5AZ141**	**ZB5AZ105**	**ZB5AZ141**	

7 Illuminated ring for Emergency stop *(2)*

Color of the illuminated ring		○ White / ● Red	● Red		
Power supply		24 VAC/VDC		110-120 VAC	230-240 VAC
Complete product for standard mounting	Unmarked	**ZBY9W3B140**	**ZBY9W2B140**	**ZBY9W2G140**	**ZBY9W2M140**
	EMERGENCY STOP	**ZBY9W3B330**	**ZBY9W2B330**	**ZBY9W2G330**	**ZBY9W2M330**
	ARRET D'URGENCE	**ZBY9W3B130**	**ZBY9W2B130**	**ZBY9W2G130**	**ZBY9W2M130**
	PARADA DE EMERGENCIA	**ZBY9W3B430**	**ZBY9W2B430**	**ZBY9W2G430**	**ZBY9W2M430**
	NOT-HALT	**ZBY9W3B230**	**ZBY9W2B230**	**ZBY9W2G230**	**ZBY9W2M230**

(1) With projecting push.

(2) For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo ⓜ has been added.

Harmony XB5 plastic pushbuttons





1 Pilot lights with universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AVB1	XB5AVB3	XB5AVB4	XB5AVB5	XB5AVB6	ZBVB1 *(1)*
	110...120 VAC	XB5AVG1	XB5AVG3	XB5AVG4	XB5AVG5	XB5AVG6	ZBVG1 *(1)*
	230...240 VAC	XB5AVM1	XB5AVM3	XB5AVM4	XB5AVM5	XB5AVM6	ZBVM1 *(1)*
Monolithic product for standard mounting	24 VAC/VDC	XB5EVB1	XB5EVB3	XB5EVB4	XB5EVB5	XB5EVB6	XB5EVB8
	110...120 VAC	XB5EVG1	XB5EVG3	XB5EVG4	XB5EVG5	–	XB5EVG8
	230...240 VAC	XB5EVM1	XB5EVM3	XB5EVM4	XB5EVM5	XB5EVM6	XB5EVM8
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FVB1	XB5FVB3	XB5FVB4	XB5FVB5	XB5FVB6	ZBVB1 *(2)*
	110...120 VAC	XB5FVG1	XB5FVG3	XB5FVG4	XB5FVG5	XB5FVG6	ZBVG1 *(2)*
	230...240 VAC	XB5FVM1	XB5FVM3	XB5FVM4	XB5FVM5	XB5FVM6	ZBVM1 *(2)*

2 Illuminated pushbuttons with flush push with universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AW31B5	XB5AW33B5	XB5AW34B5	XB5AW35B5	XB5AW36B5	ZBVB1 *(3)*
	110...120 VAC	XB5AW31G5	XB5AW33G5	XB5AW34G5	XB5AW35G5	XB5AW36G5	ZBVG1 *(3)*
	230...240 VAC	XB5AW31M5	XB5AW33M5	XB5AW34M5	XB5AW35M5	XB5AW36M5	ZBVM1 *(3)*
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FW31B5	XB5FW33B5	XB5FW34B5	XB5FW35B5	XB5FW36B5	ZBVB1 *(4)*
	110...120 VAC	XB5FW31G5	XB5FW33G5	XB5FW34G5	XB5FW35G5	XB5FW36G5	ZBVG1 *(4)*
	230...240 VAC	XB5FW31M5	XB5FW33M5	XB5FW34M5	XB5FW35M5	XB5FW36M5	ZBVM1 *(4)*







3 Selector switches and key switches

Positions		2 Stay put	2 Spring return	2 Stay put	3 Stay put	3 Spring return
Contact		NO		NO + NC	2 NO	
Connection		Screw clamp terminals				
Complete product for standard mounting	Black handle	XB5AD21	XB5AD41	XB5AD25	XB5AD33	XB5AD53
	Long black handle	XB5AJ21	–	–	XB5AJ33	XB5AJ53
	Key switch (No. 455)	XB5AG21	XB5AG61	–	XB5AG33	–
Complete flush mounting head in 30.5 mm diameter hole	Black handle	XB5FD21	XB5FD41	XB5FD25	XB5FD33	XB5FD53
	Long black handle	XB5FJ21	–	–	XB5FJ33	XB5FJ53
	Key switch (No. 455)	XB5FG21	XB5FG61	–	XB5FG33	–

4 Illuminated selector switches with universal LED and colored handle

Stay put positions		2			3		
Color		Green	Red	Orange	Green	Red	Orange
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AK123B5	XB5AK124B5	XB5AK125B5	XB5AK133B5	XB5AK134B5	XB5AK135B5
	110...120 VAC	XB5AK123G5	–	XB5AK125G5	–	–	–
	230...240 VAC	XB5AK123M5	XB5AK124M5	XB5AK125M5	XB5AK133M5	XB5AK134M5	XB5AK135M5
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FK123B5	XB5FK124B5	XB5FK125B5	XB5FK133B5	XB5FK134B5	XB5FK135B5
	110...120 VAC	XB5FK123G5	XB5FK124G5	XB5FK125G5	XB5FK133G5	XB5FK134G5	XB5FK135G5
	230...240 VAC	XB5FK123M5	XB5FK124M5	XB5FK125M5	XB5FK133M5	XB5FK134M5	XB5FK135M5

5 Double- and triple-headed pushbuttons

Type	1 flush 1 projecting	2 flush	1 flush 1 projecting		2 flush + 1 red central projecting	
Contact	NO + NC		NO + NC with 24V pilot light		2 NO + NC	
Connection	Screw clamp terminals					
Complete product	XB5AL73415	–	XB5AW73731B5	–	XB5AA731327	–
Head	ZB5AL7341	ZB5AA7121	ZB5AW7L3741	–	–	ZB5AA71124
Body	ZB5AZ105		ZB5AZ105 + ZBVB1		ZB5AZ103 + ZBE102	

(1) To get a complete pilot light, this body must be combined with a ZB5AZ009 socket and a ZB5AV083 head (to be ordered separately - see previous page).
(2) To get a complete pilot light, this body must be combined with ZB5AZ009 socket and ZB5FV083 head (to be ordered separately).
(3) To get a complete illuminated pushbutton, this body must be combined with a ZB5AZ009 socket and a ZB5AW383 head (to be ordered separately - see previous page).
(4) To get a complete illuminated pushbutton, this body must be combined with ZB5AZ009 socket and ZB5FW383 head (to be ordered separately).

Harmony XB4 and XB5 pushbuttons: other functions





1 Buzzer

Color		Black	Red illumination	Yellow illumination
Wiring connector		Screw clamp terminals		
Monolithic product	24 VAC/VDC	**XB5KSB**	**XB5KS2B4**	**XB5KS2B8**
	110...120 VAC/VDC	**XB5KSG**	**XB5KS2G4**	**XB5KS2G8**
	230...240 VAC	**XB5KSM**	**XB5KS2M4**	**XB5KS2M8**

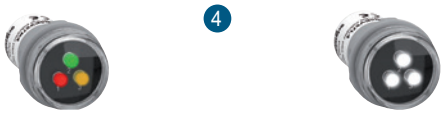
2 USB and RJ45 ports

Description	Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch		Protection covers		
Characteristics	USB interface, type A jack	Ethernet interface, RJ45 jack	Black	Rigid, transparent	Metal
Connection type	USB port 3.0 A-A	RJ45 port Cat. 6	–	–	–
Degree of protection	**IP20**	**IP20**	**IP65/IP67**	**IP65/IP67**	**IP65/IP67/IP69K**
Reference	**XB5PUSB3**	**XB5PRJ45**	**ZBSP1**	**ZBSP2**	**ZBSP3**



3 Timers

Description	Panel-mounted timer function with LED status and 1 static output in 22.5 mm hole				
Output type	1 static output				
Time delay type	Type A (delay on energization)				
Time delay range		0.5...10 s	3...60 s	0.5...10 min	3...60 min
Reference	24 VDC	**XB5DTB22**	**XB5DTB23**	**XB5DTB24**	**XB5DTB25**
	100...240 VAC 50/60 Hz	**XB5DTGM2**	**XB5DTGM3**	**XB5DTGM4**	**XB5DTGM5**



4 3-phase pilot lights with integral LED

Description	Panel-mounted 3-phase voltage indicator pilot lights with 3 LEDs in 30 mm hole		
Connection	Faston connector, 6.3 mm		
Colors		Red, green, yellow	3 white LEDs
Complete product	400 VAC	**XB5EV57K4**	**XB5EV57L4**



5 XB4 complete potentiometers

Description	Panel-mounted complete potentiometers in 22.5 mm hole		
Connection	Screw terminals		
Resistance (in kΩ)	1	4.7	10
Reference	**XB4BD912R1K**	**XB4BD912R4K7**	**XB4BD912R10K**
Resistance (in kΩ)	47	100	470
Reference	**XB4BD912R47K**	**XB4BD912R100K**	**XB4BD912R470K**

6 XB5 complete potentiometers

Description	Panel-mounted complete potentiometers in 22.5 mm hole		
Connection	Screw terminals		
Resistance (in kΩ)	1	4.7	10
Reference	**XB5AD912R1K**	**XB5AD912R4K7**	**XB5AD912R10K**
Resistance (in kΩ)	47	100	470
Reference	**XB5AD912R47K**	**XB5AD912R100K**	**XB5AD912R470K**

Harmony: other functions





1 Harmony XB5S biometric switches standalone

Receiver	Monostable	Bistable
Power supply	24 VDC/PNP output	
Cable 2 m	**XB5S2B2L2**	**XB5S1B2L2**
M12 connector	**XB5S2B2M12**	**XB5S1B2M12**

2 Harmony XB5S biometric switches RGPD/USB

Receiver	Monostable		Bistable	
Power supply	24 VDC/PNP output			
Features	Standalone RGPD	USB RGPD	Standalone RGPD	USB RGPD
Cable 2 m	**XB5S6B2L2**	**XB5S9B2L2**	**XB5S7B2L2**	**XB5S8B2L2**
M12 connector	**XB5S6B2M12**	**XB5S9B2M12**	**XB5S7B2M12**	**XB5S8B2M12**





3 Harmony XB5 digital panel meter

Product type	Display module	
LED color	Green	Red
Input range	4...20 mA DC	
Reference	**XBH1AA0R4**	**XBH1AA0G4**

4 RFID operator interface

Description	RFID Reader with key holder	User tag with 2 master key and 2 reset key
Supply Voltage	24 VDC	
Set of	1	10
Reference	**ZB5SKR01**	**ZB5SKT01**



5 Harmony XB4R/XB5R wireless and batteryless pushbuttons

Receiver	Non-programmable + 1 black cap		
Power supply	24 VDC		
Pushbutton	1 plastic	1 metal	1 plastic in handy box
Reference	**XB5RFB01**	**XB4RFA02**	**XB5RMB03**



6 Harmony Hub wireless gateway

Receiver	Modbus/TCP Ethernet	Modbus serial line
Power supply	24 VDC	
Reference	**ZBRN1**	**ZBRN2**
Accessories	**ZBRCETH**	–
Relay antenna	**ZBRA1**	**ZBRA1**
Passive antenna	**ZBRA2**	**ZBRA2**

***Note**: A wide range of wireless sensors can be connected to the Harmony Hub gateway to collect functional and environmental data.*

Accessories for Harmony pushbuttons








1 Harmony Hub Ecosystem *(1)*

Type	Temperature & Humidity Sensor	Self-powered current monitoring wireless clamp	Rope pull switch with wire-less battery-less transmitter	Plastic or metal wireless & battery-less pushbuttons
Measurement Range	-25...90 °C at 35 °C 10%...98%	0.5 A to 500 A	–	–
Reference	**ZBRTT1**	**ZBRTC●**	**ZBRP1**	**ZB4RTA● / ZB5RT●**

2 Contact blocks (for XB4 and XB5 pushbuttons)

Type		Electrical blocks					Body fixing collars for XB4 or XB5	
Contact		NO	NC	NC with monitoring	NO	NC	–	–
Connection		Screw clamp terminals			Spring clamp terminals		–	–
Sold in lots of		5	5	5	4	4	10	
Reference	Contact block	**ZBE101**	**ZBE102**	**ZBE302**	**ZBE1015**	**ZBE1025**	**ZB4BZ009**	**ZB5AZ009**

3 Light blocks with integral LED (for XB4 and XB5 pushbuttons)

Color			Universal for all colour	
Connection			Screw clamp terminals	Spring clamp terminals
Reference	Contact block	24 VAC/VDC	**ZBVB1**	**ZBVB15**
		110...120 VAC	**ZBVG1**	**ZBVG15**
		230...240 VAC	**ZBVM1**	**ZBVM15**

4 Wireless and battery-less interface to be used with ZBRR and ZBRN (for XB4 and XB5 pushbuttons)

Function	Push only (1 state)	Push and release (2 states)
Reference	**ZBRT1**	**ZBRT2**

5 Visual feedback for wireless pushbutton

Function	Visual feedback confirming the signal reception of ZBRT wireless transmitter
Reference	**ZBRV1**

6 Legend holders 30 x 40 mm for 8 X 27 mm legends

White marking/Red or black background						Black marking/Yellow background		
O	–	I	**ZBY2147**	AUTO	–	ARRET D'URGENCE	**ZBY9120**	**ZBY9130T** *(2)*
OFF	**ZBY2312**	ON	**ZBY2311**	START	**ZBY2303**	EMERGENCY STOP	**ZBY9320**	**ZBY9330T** *(2)*
Without marking/Red or black background						Without marking/Yellow background		
Red	**ZBY2101**	Black	**ZBY2101**				**ZBY9121**	

Ø 60 legends for Emergency stop







7 Illuminated ring without legend for customization (use with ZBY9W101)

Description	Ø60 mm, can be used with all Ø22 mm heads	Ø60 mm, can be used with all Ø22 mm heads
Marking	No Marking	No Marking
Signaling	Fixed, Red	Fixed, Red + white
Supply Voltage	24 V	24 V
Reference	**ZBY9W2B501**	**ZBY9W3B501**

8 Customizable Circular legend for illuminated ring without legend *(2)*

Description	Ø60 mm
Reference	**ZBY9W101**

9 Legend holders for flush mounting head

Without legend				With blank legend without marking, black or red background			
8 x 27 mm legend for XB4F & XB5F	**ZBZF32**	18 x 27 mm legend	**ZBZF33**	8 x 27 mm legend	**ZBYF2101**	18 x 27 mm legend	**ZBYF6101**

10 Transparent boots for pushbuttons (sold in lots of 10)

For pushbuttons	Circular projecting	Circular flush	Circular flush or projecting	Flush, double headed	Triple headed	Flush/projecting double headed
Reference	**ZBP0**	**ZBPA**	**ZBP0A**	**ZBA708**	**ZBA709**	**ZBA710**

11 Flush mounting kits

For use with	Pushbuttons and pilot lights				Selector switches and illuminated pushbuttons		
Range and appearance	XB4 chromium plated, depth 9.8 mm	XB5 plastic, black depth 9.8 mm	XB5 plastic, black, depth 12.3 mm with 1- or 2-line legend		XB5 plastic, black, depth 12.3 mm	XB5 plastic, black, depth 12.3 mm with 1- or 2-line legend	
			1-line legend	2-line legend		1-line legend	2-line legend
Reference	**ZB4BZ021**	**ZB5AZ021**	**ZB5AZ023**	**ZB5AZ025**	**ZB5AZ022**	**ZB5AZ024**	**ZB5AZ026**

(1) These are examples of compatible sensors, more information is available in the product catalog.
(2) Create customized marking on this reference using the web customization tool.

Harmony XAP die-cast metal enclosures



1 Harmony XAPK (yellow RAL 1004) *(1)*

Usable depth		49 mm		74.5 mm	
Number of cut-outs (22 mm)		0	1	0	1
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	**XAPK11**	**XAPK1201**	**XAPK14**	**XAPK1501**

2 Harmony XAPD with 49 mm usable depth (grey RAL 7035) *(1)*

Number of cut-outs (22 mm)		0	1	2	3	4	6
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	**XAPD11**	**XAPD1201**	**XAPD1202**	–	–	–
	80 x 130 / M20	**XAPD21**	–	**XAPD2202**	**XAPD2203**	**XAPD2204**	–
	80 x 175 / M25	**XAPD31**	–	–	**XAPD3203**	**XAPD3204**	**XAPD3206**

3 Harmony XAPD with 74.5 mm usable depth (grey RAL 7035) *(1)*

Number of cut-outs (22 mm)		0	1	2	3	4	5	6	8	10
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	**XAPD14**	**XAPD1501**	**XAPD1502**	–	–	–	–	–	–
	80 x 130 / M20	**XAPD24**	–	**XAPD2502**	**XAPD2503**	**XAPD2504**	–	–	–	–
	80 x 175 / M25	**XAPD34**	–	–	**XAPD3503**	**XAPD3504**	–	**XAPD3506**	–	–
	80 x 220 / M25	**XAPD44**	–	–	–	**XAPD4504**	**XAPD4505**	**XAPD4506**	**XAPD4508**	–
	80 x 310 / M32	**XAPD54**	–	–	–	–	**XAPD5505**	–	**XAPD5508**	**XAPD5510**
Number of cut-outs (30 mm)		**0**	**1**	**2**	**3**	**4**	**5**	**6**	**8**	**10**
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	–	**XAPD1601** *(2)*	–	–	–	–	–	–	–
	80 x 130 / M20	–	–	**XAPD2602** *(2)*	–	–	–	–	–	–
	80 x 175 / M25	–	–	–	**XAPD3603** *(2)*	–	–	–	–	–
	80 x 220 / M25	–	–	–	–	**XAPD4604** *(2)*	–	–	–	–
	80 x 310 / M32	–	–	–	–	–	–	**XAPD5606** *(2)*	–	–

4 Harmony XAPO with 74.5 mm usable depth (orange RAL 2008)

Cut-outs diameter		22 mm					30 mm with notch			
Number of cut-outs		1	2	3	4	6	1	2	3	4
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	**XAPO1501**	–	–	–	–	**XAPO1601**	–	–	–
	80 x 130 / M20	–	**XAPO2502**	–	–	–	–	**XAPO2602**	–	–
	80 x 175 / M25	–	–	**XAPO3503**	**XAPO3504**	–	–	–	**XAPO3603**	–
	80 x 220 / M25	–	–	–	–	**XAPO4506**	–	–	–	**XAPO4604**

5 Harmony XAPG with 49 mm usable depth (grey RAL 7032)

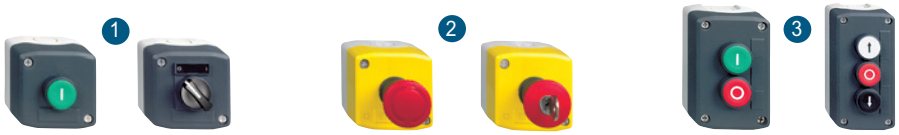
Number of cut-outs (22 mm)		0	1	2	3	4
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	**XAPG19100**	**XAPG19201**	**XAPG19702**	–	–
	80 x 130 / 3/4 NPT	**XAPG29100**	–	**XAPG29202**	**XAPG29703**	
	80 x 175 / 3/4 NPT	**XAPG39100**	–	–	**XAPG39203**	**XAPG39704**

6 Harmony XAPG with 74.5 mm usable depth (grey RAL 7032)

Number of cut-outs (22 mm)		0	1	2	3	4	5
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	**XAPG19400**	**XAPG19501**	**XAPG19802**	–	–	–
	80 x 130 / 3/4 NPT	**XAPG29400**	–	**XAPG29502**	**XAPG29803**	–	–
	80 x 175 / 3/4 NPT	**XAPG39400**	–	–	**XAPG39503**	**XAPG39804**	–
	80 x 220 / 3/4 NPT	**XAPG49400**	–	–	–	**XAPG49504**	–
	80 x 310 / 3/4 NPT	**XAPG59400**	–	–	–	–	**XAPG59505**
Number of cut-outs (30 mm)		0	1	2	3	4	5
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	–	**XAPG19601**	–	–	–	–
	80 x 130 / 3/4 NPT	–	–	**XAPG29602**	–	–	–

(1) Full customization of front cover with legend panel is possible through online product configurator.
(2) Flush mounting head can be mounted with ZB4FBZ014 accessory.

Harmony XAL plastic control stations



1 Control stations with 1 pushbutton, type XALD							
Number and type of pushbuttons		1 start or stop				1 start and stop	
Color or type		Green	Green	Red		Handle	Key
Marking		"I" (white)	"START" (white)	"O" (white)		"O-I" (white)	"O-I" (white)
Contact		NO		NC		NO	
Connection		Screw clamp terminals					
Complete product	Flush pushbutton	**XALD102** *(1)*	**XALD103** *(1)*	**XALD112**		–	–
	Selector switch	–	–	–		**XALD134** *(1)*	**XALD144** *(1)*

2 Control stations with 1 Emergency stop pushbutton, type XALK							
Number and type of pushbuttons	1 x Ø 40 trigger action Emergency stop mushroom head pushbutton						
Color	Red						
Type	Turn to release				Key release		
Contact	1 NC monitoring	NC	2 NC	2 NC + NO	NC	2 NC	2 NC + NO
Connection	Screw clamp terminals						
Complete product	**XALK1786**	**XALK178** *(1)*	**XALK178F** *(1)*	**XALK178G** *(1)*	**XALK188** *(1)*	**XALK188F**	**XALK188G** *(1)*

3 Control stations with pushbuttons, type XALD						
Number and type of pushbuttons	2 start and stop flush mounting			2 up/down flush mounting		
Color/Marking	1 "I" green	1 "Start" green	1 pilot light 24 VDC	1 "Up" white		
	1 "O" red	1 "Stop" red	1 "I" green	1 "Down" black	1 "O" red	1 E-stop red
	–	–	1 "O" red	–	1 "Down" black	
Contact	NO + NC			2 NO	NO + NC + NO	
Connection	Screw clamp terminals					
Complete product	**XALD213** *(1)*	**XALD215** *(1)*	**XALD363B** *(1)*	**XALD222** *(1)*	**XALD324** *(1)*	**XALD328** *(1)*

(1) Add H7 for UL/CSA conforming version, e.g. XALD102H7.

Harmony XAC pendant control stations



Harmony XACA pendant control stations for Ø 22 plastic signaling units					
Number of pushbuttons	2	3	4	6	8
Type	Pistol grip		Standard		
Color	Yellow		Yellow		
Pushbutton 1: Raise *(1)*	Yes	Yes	Yes	Yes	Yes
Pushbutton 2: Lower *(1)*	Yes	Yes	Yes	Yes	Yes
Emergency stop *(2)*	–	Yes	–	–	–
Pushbutton 3: Left *(1)*	–	–	Yes	Yes	Yes
Pushbutton 4: Right *(1)*	–	–	Yes	Yes	Yes
Pushbutton 5: Forward *(1)*	–	–	–	Yes	Yes
Pushbutton 6: Reverse *(1)*	–	–	–	Yes	Yes
Pushbutton 7: O *(1)*	–	–	–	–	Yes
Pushbutton 8: I *(1)*	–	–	–	–	Yes
Reference	**XACA201**	**XACA2014**	**XACA471**	**XACA671**	**XACA871**

(1) With NO contact.
(2) With NC contact.

Choose your style with Harmony customization tool





Pushbutton Ø 22 mm: base product customizable *(1)*

Type	Harmony XB4B, metal	Harmony XB5A, plastic
Pushbutton, black, 1 NO contact block	**XB4BA21**	**XB5AA21**
Pilot light, red, 24 VAC/VDC	**XB4BVB4**	**XB5AVB4**
Legend plate, 30 x 50 mm, dark grey color	**ZBYM6101**	**ZBYP6101**
Legend holder, 30 x 50 mm	–	**ZBY6101**



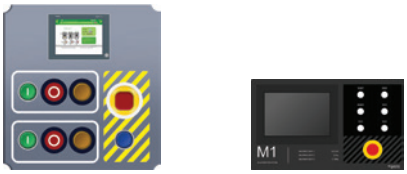
Flush mounted pushbutton: base product customizable *(1)*

Type	Harmony XB4F, metal	Harmony XB5F, plastic
Pushbutton, black, 1 NO contact block	**XB4FA21**	**XB5FA21**
Selector switch, 2 positions, 1 NO contact block	**XB4FD21**	**XB5FD21**
Pilot light, red, 24 VAC/VDC	**XB4FVB4**	**XB5FVB4**
Legend plate, 30 x 50 mm, dark grey color	–	**ZBYFP6101**
Legend holder, 40 x 50mm	–	**ZBYF2101**



Plastic control station: base product customizable *(1)*

Type	Grey color	Yellow color
1 hole	**XALD01**	**XALK01**
2 holes	**XALD02**	–
5 holes	**XALD05**	–



Legend panel: base product customizable *(1)*

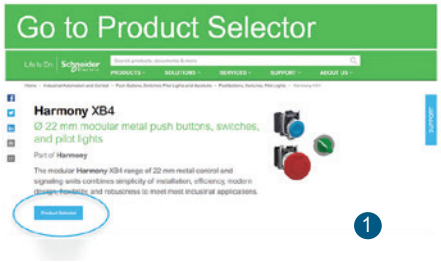
Template size (mm/*in.*)	Reference
100 x 100/*3.93 x 3.93*	**ZBYLEG101000**
300 x 400/*11.81 x 15.74*	**ZBYLEG304000**
500 x 400/*19.68 x 15.74*	**ZBYLEG504000**

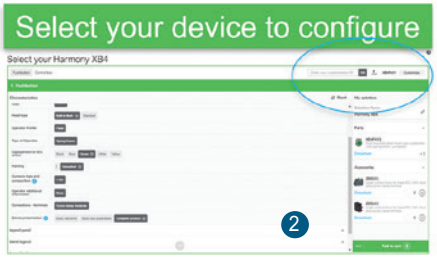
(1) Fast, easy, and intuitive: for other color or type

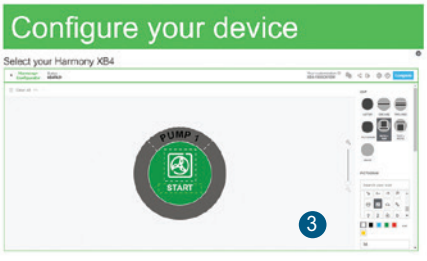
1. Go to Product Selector
2. Select your device
3. Define your customization

> Metal

> Plastic







Harmony XB7 Ø 22 monolithic pushbuttons



Pushbutton with flush push, unmarked

Color	○ White	● Black	● Green	● Red	● Yellow	● Blue
Contact	NO			NO + NC		
Connection	Screw clamp terminals					
Complete product	**XB7NA11**	**XB7NA21**	**XB7NA31**	**XB7NA45**	**XB7NA85**	**XB7NA65**



Pushbutton with flush push, marked

Color	○ White	● Black	● Green	● Green	● Red
Marking	⬆	⇩	"I" (white)	"START" (white)	"STOP" (white)
Contact	NO			NO	NC
Connection	Screw clamp terminals				
Complete product	**XB7NA11341**	**XB7NA21343**	**XB7NA3131**	**XB7NA3133**	**XB7NA4234**





Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	● Red		
Contact	NO + NC Push-pull	NO + NC Turn to release	2 NC Key release
Connection	Screw clamp terminals		
Complete product	**XB7NT845**	**XB7NS8445**	**XB7NS9444**



Pilot lights with integral LED

Color		● Green	● Red	● Yellow	● Blue	○ Clear	● Orange
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	**XB7EV03BP**	**XB7EV04BP**	**XB7EV05BP**	**XB7EV06BP**	**XB7EV07BP**	**XB7EV08BP**
	120 VAC	**XB7EV03GP**	**XB7EV04GP**	**XB7EV05GP**	**XB7EV06GP**	**XB7EV07GP**	**XB7EV08GP**
	230 VAC	**XB7EV03MP**	**XB7EV04MP**	**XB7EV05MP**	**XB7EV06MP**	**XB7EV07MP**	**XB7EV08MP**



Illuminated pushbutton with flush push with integral LED

Color		● Green	● Red	● Orange	● Blue	○ Clear	● Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	**XB7NW33B1**	**XB7NW34B1**	**XB7NW35B1**	**XB7NW36B1**	**XB7NW37B1**	**XB7NW38B1**
	120 VAC	**XB7NW33G1**	**XB7NW34G1**	–	**XB7NW36G1**	**XB7NW37G1**	**XB7NW38G1**
	230 VAC	**XB7NW33M1**	**XB7NW34M1**	**XB7NW35M1**	–	**XB7NW37M1**	**XB7NW38M1**



Selector switches with black handle

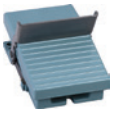
Positions		2 ⟋	2 ⟋	3 ⟋⟍	2 ⟋⟍	3 ⟋⟍
Type		Stay put			Key withdrawal in LH position	Key withdrawal in center position
Contact		NO	NO + NC	2 NO	NO	2 NO
Connection		Screw clamp terminals				
Complete product	24 VAC/VDC	**XB7ND21**	**XB7ND25**	**XB7ND33**	**XB7NG21**	**XB7NG33**

Other control components









Harmony XD4 joystick controllers						
Number of directions	2	4	2	4		
Contact	1 NO per direction					
Position	Stay put		Spring return			
Reference	**XD4PA12**	**XD4PA14**	**XD4PA22**	**XD4PA24**		
Harmony cam switches						
Function	Ammeter	Voltmeter	Changeover	ON-OFF switches		Stepping
Thermal current	12 Amps					
Number of poles	6	6	4	1	3	3
Multi-screw fixing	**K1F003MLH**	**K1F027MLH**	**K1D002ULH**	**K1A001ALH**	**K1C003ALH**	**K1C003QLH**
Ø 22 fixing	**K1F003MCH**	**K1F027MCH**	**K1D002UCH**	**K1A001ACH**	–	**K1C003QCH**
Harmony XPE foot switches						
Material/Color	Plastic black	Plastic yellow	Metal blue	Metal blue	Metal blue	Metal orange
Cover	No	Yes	No		Yes	
Contact		1 NC + 1 NO		2 NC + 2 NO	1 NC + 1 NO	
Without trigger mechanism	**XPEA110**	**XPEY310**	**XPEM110**	**XPEM111**	**XPEM310**	**XPER310**
Trigger mechanism	–	**XPEY510**	**XPEM810**	–	**XPEM510**	**XPER510**

Harmony remote control system and pendant control stations for hoisting







Harmony Pocket Remote						
Transmitter	**No. of pushbuttons**	3	4	6	8	10
	Reference	**ZART03**	**ZART04**	**ZART06**	**ZART08**	**ZART10**
Receiver	**Connection**	Pre-wired 1.5 m				
	Power supply	12-24 VDC				
	Standard output	5		11		
	Reference	**ZARB05WSP**		**ZARB11WSP**		
Harmony wireless remote control system (compact)						
Motion pushbutton		6				
Auxiliary pushbuttons		1				
LED or display		LED				
Emergency stop mushroom head		1 Emergency stop mushroom head SIL 2 cat 3 PLd				
Base	Standard output	10				
	Safety output	2				
Handheld	Reference	**ZART8LS**				
Base	Power supply	48...240 VAC				24 VDC
	Connection	Cable gland		Pre-wired 1.5 m		
	Reference	**ZARB10WS**		**ZARB10WSP**		**ZARB10WSPDC**
Harmony wireless remote control system (standard)						
Motion pushbutton		6				
Auxiliary pushbuttons		2		2		6
LED or display		LED		Display		Display
Emergency stop mushroom head		1 Emergency stop mushroom head SIL 3 cat 4 Ple				
Base	Standard output	12		12		18
	Safety output	2		2		2
Inputs		–		–		18
Handheld	Reference	**ZART8L**		**ZART8D**		**ZART12D**
Base	Reference	**ZARB12W**		**ZARB18W**		**ZARB18W**
	Connection	Cable gland				



02. Harmony Human Machine Interfaces (HMI) – Basic panels

Harmony STO7, ST6 and STW6 models





Harmony STO7 touch panels - most compact panels

Screen size		4.3”		
Screen resolution (pixels)		480 x 272		
Touch screen or keypad		Touch screen		
Software		EcoStruxure Operator Terminal Expert		
Memory capacity	Application memory	26 MB		
	Backup memory	128 KB		
	Expansion memory	No		
Communication	Ethernet port	No		1 LAN port
	Serial line	RS-232C (9-way terminal block)	RS-232C/RS-485 (RJ45 8-way)	No
	USB connection	1 type A host connector + 1 mini-B connector		
Operating temperature		0…50 °C		
Industrial certifications		CE, RCM, EAC, KC, CUL, UL, ATEX Zone 2/22		
Cut-out (mm) *(1)*		112.5 x 77.5		
Dimensions (mm)		124.9 x 90.4 x 38.8		
Reference		**HMISTO705**	**HMISTO715**	**HMISTO735**





Harmony ST6 - New level of aesthetics with visually powerful EcoStruxure Operator Terminal Expert software

Screen size		4.3”	7”	10.1”	12.1”	15.6”
Screen resolution (pixels)		480 x 272	800 x 480	1,024 x 600	1,280 x 800	1,366 x 768
Touch screen or keypad		Touch screen				
Software		EcoStruxure Operator Terminal Expert				
Memory capacity	Application memory	128 MB				
	Backup memory	NVRAM 512 KB				
	Expansion memory	No				
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/ 100BASE-TX x1	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX x2			
	Serial line	RS-232C/485 (COM1)	RS-232C (COM1) and RS-485 (COM2)			
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)				
Operating temperature		0...50 °C				
Industrial certifications		CE, UL, cUL, RMC, KC, EAC, RoHS, and WEEE				
Cut-out (mm)		118.5 x 92.5	190 x 135	255 x 185	295 x 217	394 x 250
Dimensions (mm)		134.5 x 108.5 x 43	208 x 153 x 45	273 x 203 x 47	313 x 235 x 50	412 x 268 x 50
Reference		**HMIST6200**	**HMIST6400**	**HMIST6500**	**HMIST6600**	**HMIST6700**





Harmony STW6 - New level of aesthetics and ready-to-use with a pre-installed browser

Screen size		4.3”	7”	10.1”	12.1”	15.6”
Screen resolution (pixels)		480 x 272	800 x 480	1,024 x 600	1,280 x 800	1,366 x 768
Touch screen or keypad		Touch screen				
Software		Linux Browser HTML5				
Memory capacity	System memory	512 MB				
	Backup memory	NVRAM 128 KB				
	Expansion memory	No				
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/ 100BASE-TX x1	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX x2			
	Serial line	No				
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)				
Operating temperature		0...50 °C				
Industrial certifications		CE, UL, cUL, RMC, KC, EAC, RoHS, and WEEE				
Cut-out (mm)		118.5 x 92.5	190 x 135	255 x 185	295 x 217	394 x 250
Dimensions (mm)		134.5 x 108.5 x 43	208 x 153 x 45	273 x 203 x 47	313 x 235 x 50	412 x 268 x 50
Reference		**HMISTW6200**	**HMISTW6400**	**HMISTW6500**	**HMISTW6600**	**HMISTW6700**

(1) An accessory adapter is available to fit in monochrome STO cut-out.

Harmony STM6 modular, faceless and Edge Box HMI models





Harmony STM6 - New level of aesthetics with unique pushbutton 22 mm mounting system				
Screen size		4.3”	7”	–
Screen resolution (pixels)		480 x 272	800 x 480	–
Touch screen or keypad		Touch screen		–
Software		EcoStruxure Operator Terminal Expert		
Memory capacity	Application memory	128 MB		
	Backup memory	NVRAM 512 KB		
	Expansion memory	No		
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX		
	Serial line	RS-232C/485 (COM1)x2		
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)		
Operating temperature		0...50 °C		
Industrial certifications		CE, UL, cUL, RMC, KC, EAC, UL Class1 Div2, ATEX Zone 2/22, Marine, RoHS, and WEEE		
Cut-out (mm)		hole 22.5	hole 22.5	DIN Rail mounting
Dimensions (mm)		145.6 x 108.2 x 53.9	201.2 x 137.2 x 57.7	150.49 x 109.97 x 63.3
Reference		**HMISTM6200**	**HMISTM6400**	**HMISTM6BOX** *(1)*





Harmony Edge Box HMI - affordable box to get ready for Cloud service thanks to the power of EcoStruxure Machine SCADA Expert		
Software		EcoStruxure Machine SCADA Expert
Memory	Device memory	1GB
	Application memory	220 MB
Communication	Ethernet port	2 x Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Serial line	RS-232C/485 (COM 1)
	USB connection	1x USB 2.0 (Type A), 1 x USB 2.0 Micro-B
Operating temperature		0…60°C
Industrial certifications		CE, China RoHS, REACH, KC, EN (61000-6-4/61000-6-2/ 61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201, ATEX Zone2/22, Marine
Mounting		DIN Rail mounting
Dimensions (mm)		150.49 x 109.97 x 63.3
Reference		**HMISTM6BOXIOT** *(2)*

(1) Web Viewer run time license pre-activated.
(2) Runtime 500 tags EcoStruxure Machine SCADA Expert pre-activated + 1 Mobile Access Client activated + EcoStruxureSecure Connect Advisor pre-installed.

Programming software and USB accessories



EcoStruxure Operator Terminal Expert, programming software for Harmony STO7, ST6 and STM6 basic panels		
Compatibility	Harmony STO7, ST6 and STM6 basic panels	
Type of EcoStruxure Operator Terminal Expert license	Professional License *(1)*	Basic Edition License *(2)*
Number of stations	1	
License format	Digital	Digital
License duration	Unlimited	
Reference	**HMIPELCZSPAZZ**	**HMIEELCZLSPAZZ**

Web Viewer run time licenses - EcoStruxure Operator Terminal Expert Monitor and operate the HMI screen remotely with mirroring function			
Compatibility	Harmony ST6 and STM6 panels powered by EcoStruxure Operator Terminal Expert		
License type	Single	Team	Entity
Number of Operator Panels	1	10	100
Licenses format	Printed		
License Duration	Unlimited (not transferable between HMI operator panels)		
Reference	**HMIWRT001**	**HMIWRT010**	**HMIWRT100**

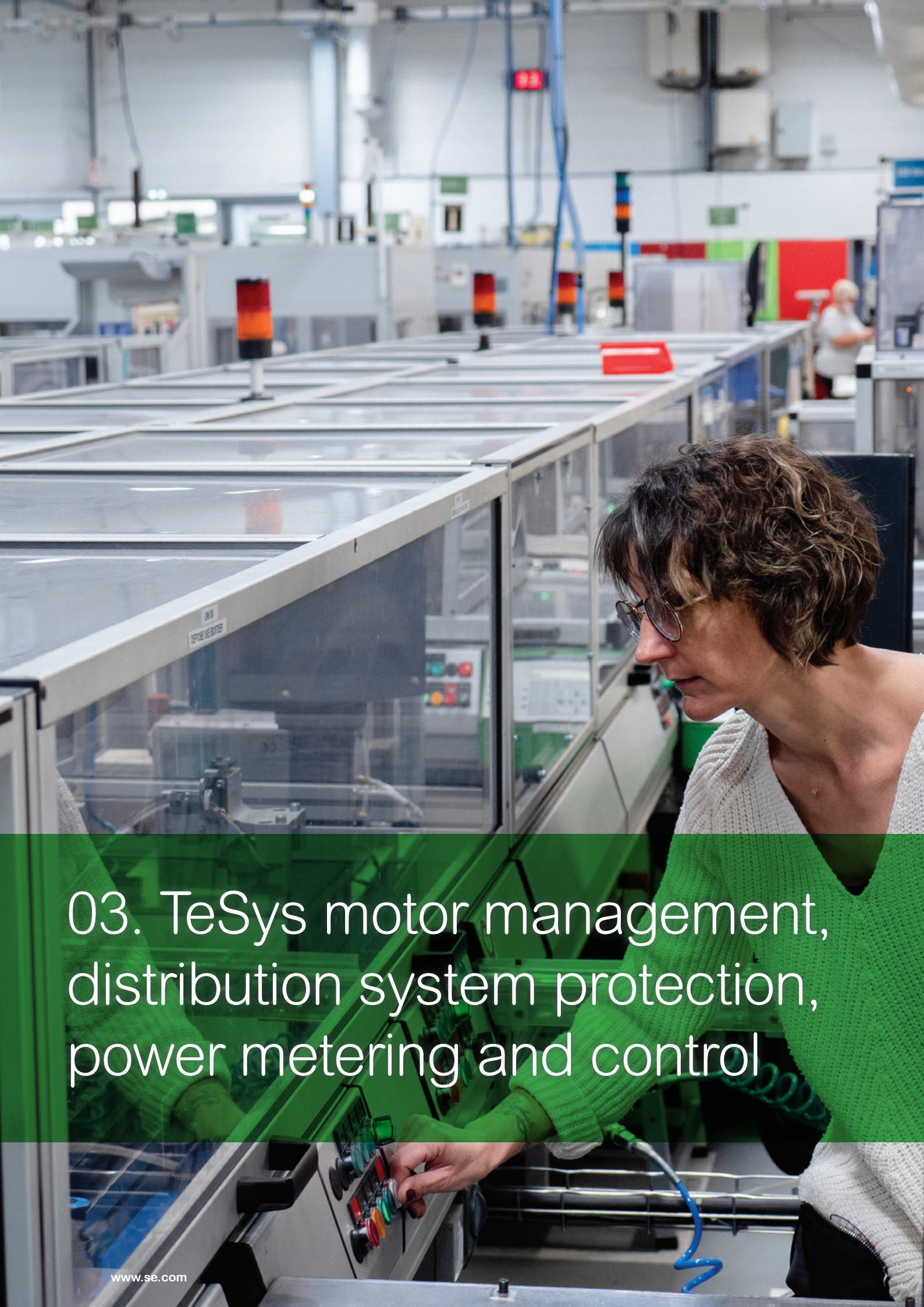


EcoStruxure Machine SCADA Expert, programming software for Edge Box HMI	
Compatibility	Harmony Edge Box HMI HMISTM6BOXIOT
Type license	Buildtime 500 tags
Number of stations	1
License format	Digital
License Duration	Unlimited
Reference	**HMIEMSEBT500A**



USB accessories for basic panels		
USB accessories	Monolithic USB tower lights	
Degree of protection	IP54	
Description	- 3 multi-color LEDs - clear lens - 2-tone buzzer (up to 85 dB at 1 m) - pre-assembled USB cable for easy connection - USB cable clamp to help ensure firm connection	
Type of mounting	Base for direct mounting	100 mm aluminum support tube mounted on a plate
Compatibility	Harmony ST6 and STM6 models powered by EcoStruxure Operator Terminal Expert *(3)*	
Reference	**XVGU3SWV**	**XVGU3SHAV**

(1) Supports Web Server API in ST6/STO7 and OPC UA in ST6.
(2) Does not support Web Server API or OPC UA.
(3) USB tower lights are expected to be supported by EcoStruxure Operator Terminal Expert from Q2 2023.



03. TeSys motor management, distribution system protection, power metering and control

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Ultra compact motor starter
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LZ
Motor starter structure - 4 functions to be covered:						
Disconnection and breaking		■	■	■		
Short-circuit protection		■	■	■		
Overload protection		■			■	■
Control	■					■



Voltage coil code

	■■	■■	■■
	AC	DC	DC<2.4W
24 V	B7	BD	BL
48 V	E7	ED	EL
110 V	F7	FD	
220 V	M7		
230 V	P7		

Motor power AC3 380/400 V	0.37...0.55 kW	0.75 kW	1.1...1.5 kW	2.2 kW	3 kW	4 kW	5.5 kW
TeSys K mini contactor *(1)*							
Ie max. AC3 (Ue ≤ 440 V)	6 A	6 A	6 A	6 A	9 A	9 A	12 A
Ie AC1 (T< 60°C)	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Contactor with NO auxiliary contact *(2)*	LC1K0610 ■■	LC1K0610 ■■	LC1K0610 ■■	LC1K0610 ■■	LC1K0910 ■■	LC1K0910 ■■	LC1K1210 ■■
Contactor with NC auxiliary contact *(2)*	LC1K0601 ■■	LC1K0601 ■■	LC1K0601 ■■	LC1K0601 ■■	LC1K0901 ■■	LC1K0901 ■■	LC1K1201 ■■
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14	GV2P16
Rotary handle							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
Thermal-magnetic circuit breaker	GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14	GV2ME16
Pushbutton control							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14	GV2LE16
Tumbler control							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14	GV2L16
Rotary handle							
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
Operational current Ie/400 V	2 A	4 A	4 A	6 A	8 A	12 A	16 A
Thermal overload relay cl10A	LR2K0306	LR2K0308	LR2K0310	LR2K0312	LR2K0314	LR2K0316	LR2K0321
TeSys H ultra-compact motor starter							
Breaking capacity Icu/400 V	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA		
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14		
Rotary handle							
Breaking capacity Icu/400 V	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA		
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14		
Tumbler control							
Ultra-compact starter							
Standard version	LZ1H2X...	LZ1H2X...	LZ1H6X...	LZ1H6X...	LZ1H6X...		
"Safety" version	LZ7H2X...	LZ7H2X...	LZ7H6X...	LZ7H6X...	LZ7H6X...		

(1) Naming rule for the TeSys K range: LC1K… for AC; LP1K… for DC; LP4K… for DC < 2.4 W. For more details, please refer to the TeSys catalog.
(2) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Compact starter controller
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys Ultra
Product reference prefix	LC	GV	GV.L	GS	LR	LU
Motor starter structure - 4 functions to be covered:						
Disconnection and breaking	▫	■	■	■	▫	▫
Short-circuit protection	▫	■	■	■	▫	▫
Overload protection	▫	■	▫	▫	■	▫
Control	■	▫	▫	▫	▫	▫

3



Voltage coil code

	■■	■■	■■	■■	★★
	AC	DC	DC <2.4 W	AC/DC	AC/DC
24 V	B7	BD	BL	BNE	B/BL
48 V	E7	ED	EL	BNE	ES
110 V	F7	FD		KUE	FU
220 V	M7			KUE	FU
230 V	P7			KUE	FU

Motor power AC3 380/400 V	0.37…0.55 kW	0.75 kW	1.1…1.5 kW	2.2 kW	3 kW	4 kW
	TeSys Deca Contactors					
Ie max. AC3 (Ue ≤ 440 V)	9 A	9 A	9 A	9 A	9 A	9 A
Ie AC1 (T< 60°C)	25 A	25 A	25 A	25 A	25 A	25 A
Contactor *(1)*	LC1D09 ■■	LC1D09 ■■	LC1D09 ■■	LC1D09 ■■	LC1D09 ■■	LC1D09 ■■
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14
	Rotary handle					
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14
	Pushbutton control					
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14
	Tumbler control					
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14
	Rotary handle					
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
Operational current Ie/400 V	2 A	4 A	4 A	6 A	8 A	12 A
Thermal overload relay cl10A	LRD06	LRD07	LRD08	LRD10	LRD12	LRD14
Thermal overload relay cl20	–	–	LRD1508	LRD1510	LRD1512	LRD1514
	TeSys Ultra Compact Motor Starter					
Breaking capacity Icu/400 V	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Power base	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12
Control unit	LUCA1X ★★	LUCA05 ★★	LUCA05 ★★	LUCA12 ★★	LUCA12 ★★	LUCA12 ★★
	LAD5C.. and LAD9AP3.. modules provide pre-wired solutions for GV + LC1D control circuits. Use LUFC00 for TeSys Ultra.					

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Compact starter controller
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys Ultra
Product reference prefix	LC	GV	GV.L	GS	LR	LU
Motor starter structure - 4 functions to be covered:						
Disconnection and breaking	▫	■	■	■	▫	▫
Short-circuit protection	▫	■	■	■	▫	▫
Overload protection	▫	■	▫	▫	■	▫
Control	■	▫	▫	▫	▫	▫



Voltage coil code

	■■	■■	■■	■■	★★
	AC	DC	DC<2.4 W	AC/DC	AC/DC
24 V	B7	BD	BL	BNE	B/BL
48 V	E7	ED	EL	BNE	ES
110 V	F7	FD		KUE	FU
220 V	M7			KUE	FU
230 V	P7			KUE	FU

Motor power AC3 380/400 V	5.5 kW	7.5 kW	9 kW	11 kW	15 kW	18.5 kW
TeSys Deca Contactors						
Ie max. AC3 (Ue ≤ 440 V)	12 A	18 A	25 A	25 A	32 A	
Ie AC1 (T< 60°C)	25 A	32 A	40 A	40 A	50 A	
Contactor *(1)*	LC1D12 ■■	LC1D18 ■■	LC1D25 ■■	LC1D25 ■■	LC1D32 ■■	
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	
Thermal-magnetic circuit breaker	GV2P16	GV3P18	GV3P25	GV3P25	GV3P32	
Rotary handle						
Breaking capacity Icu/400 V	15 KA	15 KA	15 KA	15 KA	15 KA	
Thermal-magnetic circuit breaker	GV2ME16	GV2ME20	GV2ME21	GV2ME22	GV2ME32	
Pushbutton control						
Breaking capacity Icu/400 V	15 KA	15 KA	15 KA	15KA	15 KA	
Magnetic circuit breaker	GV2LE16	GV2LE20	GV2LE22	GV2LE22	GV2LE32	
Tumbler control						
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	
Magnetic circuit breaker	GV2L16	GV2L20	GV2L22	GV3L25	GV3L32	
Rotary handle						
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	
Operational current Ie/400 V	16 A	16 A	25 A	25 A	32 A	
Thermal overload relay cl10A	LRD16	LRD21	LRD22	LRD22	LRD32	
	–	–	–	LRD325 *(2)*	LRD332 *(2)*	
Thermal overload relay cl20	LRD1516	LRD1521	LRD1522	LRD1522	LRD1532	
	–	–	–	LRD325L *(2)*	LRD332L *(2)*	
TeSys Ultra Compact Motor Starter						
Breaking capacity Icu/400 V	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA
Power base	LUB12	LUB32	LUB32	LUB32	LUB32	LUB38
Control unit	LUCA12 ★★	LUCA18 ★★	LUCA32 ★★	LUCA32 ★★	LUCA32 ★★	LUCA38 ★★

LAD5C.. and LAD9AP3.. modules provide pre-wired solutions for GV + LC1D control circuits.
Use LUFC00 for TeSys Ultra.

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.
(2) BTR screws (EverLink).

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay
Range name	TeSys D, TeSys Deca & Giga	TeSys GV	TeSys GV.L	TeSys GS	TeSys D, TeSys Deca & Giga
Product reference prefix	LC	GV	GV.L	GS	LR
Motor starter structure - 4 functions to be covered:					
Disconnection and breaking		■	■	■	
Short-circuit protection		■	■	■	
Overload protection		■			■
Control	■				



Voltage coil code

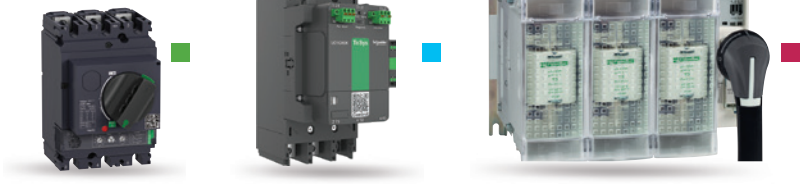
	■■	■■	■■	■■	■■	●●	●●
	AC	DC	DC<2.4W	AC/DC	DC<0.5W	AC	DC
24 V	B7	BD	BL	BNE	BBE	B7	BD
48 V	E7	ED	EL	BNE		E7	ED
110 V	F7	FD		KUE		F7	FD
220 V	M7			KUE		M7	
230 V	P7			KUE		P7	

Motor power AC3 380/400 V	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
	TeSys Deca Contactors						
Ie max. AC3 (Ue ≤ 440 V)	40 A	50 A	65 A	80 A	95 A	115 A	150 A
Ie AC1 (T< 60°C)	60 A	80 A	80 A	125 A	125 A	200 A	200 A
Contactor *(1)*	LC1D40A ■■	LC1D50A ■■	LC1D65A ■■	LC1D80A ■■	LC1D95 ●●	LC1D115 ●●	LC1D150 ●● / LC1F150 ●●
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	100 KA	100 KA	100 KA	70 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV4P80	GV4P115	GV4P115	GV5P150H
	Rotary handle			Rotary or tumbler handle			Rotary handle
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	50 KA	100 KA	100 KA	36 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV3P73	GV4P115	GV4P115	GV5P150F
	Rotary handle			Rotary or tumbler handle			Rotary handle
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	100 KA	100 KA	100 KA	70 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	GV4L80	GV4L115	GV4L115	NSX160HMA
	Rotary handle			Rotary or tumbler handle			
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	50 KA	100 KA	100 KA	50 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	GV3L73	GV4L115	GV4L115	NSX160NMA
	Rotary handle				Rotary or tumbler handle		
Switch-disconnector fuse	GS2F	GS2F	GS2J	GS2J	GS2J	GS2J	GS2J GS2LL / GS2L
Fuse type	14 x 51	14 x 51	22 x 58	22 x 58	22 x 58	22 x 58	T00 / T0
Operational current Ie/400 V	40 A	50 A	80 A	100 A	100 A	125 A	160 A
Thermal overload relay cl10A	–	–	–	LRD3361	LRD3365	LRD4367	LRD4369
	LRD340	LRD350	LRD365	–	–	LR9D5369 *(2)*	LR9D5369 *(2)*
Thermal overload relay cl20	LRD340L	LRD350L	LRD365L	LR2D3563	–	LR9D5569 *(2)*	LR9D5569 *(2)*

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.
(2) Electronic products.

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay
Range name	TeSys K, TeSys Deca & Giga	TeSys GV5/GV6, ComPacT NSX/NS	ComPacT NSX/NS	TeSys GS	TeSys K, TeSys Deca & Giga
Product reference prefix	LC	GV.P/LV4/33	GV.L	GS	LR
Motor starter structure - 4 functions to be covered:					
Disconnection and breaking	▫	■	■	■	▫
Short-circuit protection	▫	■	■	■	▫
Overload protection	▫	■	▫	▫	■
Control	■	▫	▫	▫	▫



TeSys Giga Contactor LC1G115….LC1G800	Advanced Version	Standard Version
Control Voltage code (•••)	LC1G……..A	LC1G……..N
24…48 V AC/DC	BEE*	-
48…130 V AC/DC	EHE	EHE
100…250 V AC/DC	-	KUE
200…500 V AC/DC	LSE	-
* LC1G115-LC1G500		

TeSys F Contactor LC1F1000	AC	DC
110 V	F7	FD
220 V	M7	MD
230 V	M7	
240 V	U7	

3

Motor power AC3 400 V	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	200 kW	250 kW	335 kW	450 kW	500 kW
	TeSys Giga contactor										
Ie max. AC3 (Ue ≤ 440 V)	115 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A	800 A	1000 A
Ie AC1 (T< 60°C)	250 A	275 A	305 A	330 A	385 A	440 A	550 A	700 A	1050 A	1050 A	1250 A *(2)*
Contactor *(1)*	LC1G115••••	LC1G150••••	LC1G185••••	LC1G225••••	LC1G265••••	LC1G330••••	LC1G400••••	LC1G500••••	LC1G630••••	LC1G800••••	LC1F1000••
2 devices: Type-2 protection											
Breaking capacity Icu/400 V	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA
Thermal-magnetic circuit breaker	GV5P150H	GV5P150H	GV5P220H	GV5P220H	GV6P320H	GV6P320H	GV6P500H	GV6P500H	NS800H	NS800H/ NS1000H	NS1000L
Trip unit	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	42 KA
Thermal-magnetic circuit breaker	GV5P150F	GV5P150F	GV5P220F	GV5P220F	GV6P320F	GV6P320F	GV6P500F	GV6P500F	NS800N	NS800N	NS1000L
Trip unit	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
3 devices: Type-2 protection											
Breaking capacity Icu/ 400 V	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	130 kA	130 kA	130 kA
Magnetic circuit breaker	NS160H	NS160H	NSX250H	NSX250H	NSX400H	NSX400H	NSX630H	NSX630H	NS800L	NS800L	NS1000L
Trip unit	MA	MA	MA	MA	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	*(3)*	*(3)*	*(3)*
Overload relay *(4)*	LR9G225	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G500	-	LRD05 + Current transformer 800/1 A
Breaking capacity Icu/ 400 V	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	130 kA	130 kA	130 kA
Magnetic circuit breaker	NS160N	NS160N	NSX250N	NSX250N	NSX400N	NSX400N	NSX630N	NSX630N	NS800L	NS800L	NS1000L
Trip unit	MA	MA	MA	MA	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	*(3)*	*(3)*	*(3)*
Overload relay *(4)*	LR9G225	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G500	-	LRD05 + Current transformer 800/1 A *(5)*
Breaking capacity Icu/ 400 V	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA
Switch-disconnector fuse	GS2L	GS2L	GS2N	GS2N	GS2N	GS2QQ	GS2S	GS2S	GS2S	GS2V	GS2V
Fuse size (type DIN - aM fuses)	0	0	1	1	2	2	3	3	4	4	4
Operational current Ie/ 400 V	125 A	160 A	200 A	250 A	315 A	400 A	500 A	500 A	800 A	800 A	1000 A
Overload relay *(4)*	LR9G115	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G630	LRD10 + current transformer 5A/5VA *(5)*	LRD10 + current transformer 5A/5VA *(5)*

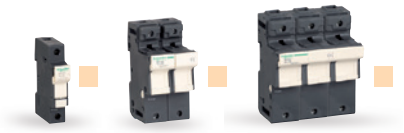
(1) Contactor references must be completed with coil voltage code as indicated above table (eg.: "LSE" for 200…500V AC/DC control voltage) and ended with A for Advanced version and N for Standard version. For more details, please refer to the TeSys Giga catalog.
(2) 1250 A at 40 °C.
(3) Micrologic 5.0 + Plug LR Off.
(4) LR9G- Electronic thermal over-load relay with trip class selection from 5e…30e with phase imbalance and ground fault protections.
(5) Thermal overload relay class 10 A.

Build your motor starter!

	Main/Emergency stop switch-disconnector	Fuse carrier	Control relay
Range name	TeSys Vario	TeSys DF	TeSys CAD, CAK
Product reference prefix	V	DF	CAD, CAK
Motor starter structure - 4 functions to be covered:			
Disconnection and breaking	■	■	■
Short-circuit protection	■	■	■
Overload protection	■	■	■
Control	■	■	■



TeSys Vario		Application	Standard		High performance								
		Ith (A)	12	20	12	20	25	32	40	63	80	125	175
Main switch disconnector	Door mounting	D22 fixing	VBDN12	VBDN20	VBD02	VBD01	VBD0	VBD1	VBD2	–	–	–	–
		Screw fixing	–	–	VBF02	VBF01	VBF0	VBF1	VBF2	VBF3	VBF4	VBF5	VBF6
Emergency stop switch disconnector	Door mounting	D22 fixing	VCDN12	VCDN20	VCD02	VCD01	VCD0	VCD1	VCD2	–	–	–	–
		Screw fixing	–	–	VCF02	VCF01	VCF0	VCF1	VCF2	VCF3	VCF4	VCF5	VCF6
	Back mounting	D22 fixing	VCCDN12	VCCDN20	VCCD02	VCCD01	VCCD0	VCCD1	VCCD2	–	–	–	–
		Screw fixing	–	–	VCCF02	VCCF01	VCCF0	VCCF1	VCCF2	VCCF3	VCCF4	VCCF5	VCCF6



TeSys DF fuse carrier					
Fuse type		8x32	10x38	14x51	22x58
Fuse carrier	1 pole	DF81	DF101	DF141	DF221
	2 poles	DF82	DF102	DF142	DF222
	3 poles	DF83	DF103	DF143	DF223
Thermal current Ith (A)		25	32	50	125



TeSys Control relay				
Auxiliary contact		AC control coil	DC control coil	DC control coil low consumption
NO	NC	4.5 VA	3 W	1.8 W
4	–	CA2KN40●●	CA3KN40●●	CA3KN40BW3
3	1	CA2KN31●●	CA3KN31●●	CA3KN31BW3
2	2	CA2KN22●●	CA3KN22●●	CA3KN22BW3
		8 VA	5.4 W	2.4 W
5	–	CAD50●●		
3	2	CAD32●●		

Voltage coil code

	AC	DC	DC < 2.4 W
24 V	B7	BD	BL
48 V	E7	ED	EL
110 V	F7	FD	FL
220 V	M7		
230 V	P7		

Distribution system protection

ComPacT NSXm molded-case circuit breakers and switch-disconnectors up to 160 A and 70 kA at 415 V





For breaking capacity, replace ● with: E (16 kA at 380/415 V), B (25 kA at 380/415 V), F (36 kA at 380/415 V), N (50 kA at 380/415 V), or H (70 kA at 380/415 V).

ComPacT NSXm circuit breaker				
With thermal-magnectic trip unit TM-D				
EverLink™ connectors				
Rating	Trip unit	3P	4P 3d	4P 4d
16 A	TM16D	**C11E3TM016L**	**C11E6TM016L**	**C11E4TM016L**
25 A	TM25D	**C11E3TM025L**	**C11E6TM025L**	**C11E4TM025L**
32 A	TM32D	**C11E3TM032L**	**C11E6TM032L**	**C11E4TM032L**
40 A	TM40D	**C11E3TM040L**	**C11E6TM040L**	**C11E4TM040L**
50 A	TM50D	**C11E3TM050L**	**C11E6TM050L**	**C11E4TM050L**
63 A	TM63D	**C11E3TM063L**	**C11E6TM063L**	**C11E4TM063L**
80 A	TM80D	**C11E3TM080L**	**C11E6TM080L**	**C11E4TM080L**
100 A	TM100D	**C11E3TM100L**	**C11E6TM100L**	**C11E4TM100L**
125 A	TM125D	**C12E3TM125L**	**C12E6TM125L**	**C12E4TM125L**
160 A	TM160D	**C12E3TM160L**	**C12E6TM160L**	**C12E4TM160L**

ComPacT NSXm NA switch-disconnector		
EverLink™ connectors		
Rating	3P	4P
50 A	**C113050LS**	**C114050LS**
100 A	**C113100LS**	**C114100LS**
160 A	**C123160LS**	**C124160LS**

Note: *For accessories and more details, please refer to the Com**PacT** NSX & NSXm catalog.*

PowerPact B molded-case circuit breakers up to 125 A and 65 kA at 480 V



PowerPact B-Frame 125 A unit-mount thermal-magnetic circuit breakers (480 VAC) Delta rated					
With factory sealed trip unit (suitable for reverse connection)					
B-Frame, 125 A, 3P, 480 VAC 50/60 Hz with EverLink™ connectors					
Current rating at 40 °C (A)	Fixed AC magnetic trip (A)		Interrupting rating standard (80%) rated		
	Hold	Trip	D - 18 kA	G - 35 kA	J - 65 kA
15	400	600	**BDL36015LU**	**BGL36015LU**	**BJL36015LU**
20	400	600	**BDL36020LU**	**BGL36020LU**	**BJL36020LU**
25	400	600	**BDL36025LU**	**BGL36025LU**	**BJL36025LU**
30	400	600	**BDL36030LU**	**BGL36030LU**	**BJL36030LU**
35	400	600	**BDL36035LU**	**BGL36035LU**	**BJL36035LU**
40	400	600	**BDL36040LU**	**BGL36040LU**	**BJL36040LU**
45	400	600	**BDL36045LU**	**BGL36045LU**	**BJL36045LU**
50	480	720	**BDL36050LU**	**BGL36050LU**	**BJL36050LU**
60	640	960	**BDL36060LU**	**BGL36060LU**	**BJL36060LU**
70	640	960	**BDL36070LU**	**BGL36070LU**	**BJL36070LU**
80	800	1200	**BDL36080LU**	**BGL36080LU**	**BJL36080LU**
90	1000	1500	**BDL36090LU**	**BGL36090LU**	**BJL36090LU**
100	1000	1500	**BDL36100LU**	**BGL36100LU**	**BJL36100LU**
110	1000	1500	**BDL36110LU**	**BGL36110LU**	**BJL36110LU**
125	1000	1500	**BDL36125LU**	**BGL36125LU**	**BJL36125LU**

Note: *For accessories and more details, please refer to the PowerPact B catalog.*

Distribution system protection

Multi**9** miniature circuit breakers

Feeder products - C60BP - UL 489 - Z, C, D curves – Tunnel terminals



Main characteristics

Number of 18 mm/*0.71 in.* poles	Rating (A) 25 °C/77 °F	Breaking capacity (kA rms) AIR UL 489/CSA C22.2 No 5				Icu IEC 60947 - 2			
Poles	**Voltage (Ue)**	**277 V~**	**240 V~**	**120 V~**	**60 V ⎓**	**440 V~**	**415 V~**	**240 V~**	**60 ⎓**
1P	0.5 to 35	10	14	14	10	–	3	10	20
	40 to 63	–	10	10	10	–	3	10	20
Poles	**Voltage (Ue)**	**480Y/277 V~**		**240 V~**	**125 V ⎓**	**440 V~**	**415 V~**	**240 V~**	**125 ⎓**
2P	1 to 25	10		14	10	6	10	20	–
	30 to 35	10		14	–	6	10	20	–
3P	1 to 35	10		14	–	6	10	20	–
2P/3P	40 to 63	–		10	–	6	10	20	–

Tunnel terminal connection

Type	UL489 and CSA voltages	1P		2P	3P
Auxilliaries		Remote indication and tripping			
Rating (In)		Curve		Curve	Curve
		Z	C	C	C
$C60_{SP}$					
0.5	480 Y/277 V and 240 V	**M9F44170**	**M9F42170**	**–**	**–**
1		**M9F44101**	**M9F42101**	**M9F42201**	**M9F42301**
2		**M9F44102**	**M9F42102**	**M9F42202**	**M9F42302**
3		**M9F44103**	**M9F42103**	**M9F42203**	**M9F42303**
4		**M9F44104**	**M9F42104**	**M9F42204**	**M9F42304**
5		**M9F44105**	**M9F42105**	**M9F42205**	**M9F42305**
6		**M9F44106**	**M9F42106**	**M9F42206**	**M9F42306**
8		**M9F44108**	**M9F42108**	**M9F42208**	**M9F42308**
10		**M9F44110**	**M9F42110**	**M9F42210**	**M9F42310**
15		**M9F44115**	**M9F42115**	**M9F42215**	**M9F42315**
20		**M9F44120**	**M9F42120**	**M9F42220**	**M9F42320**
25		**M9F44125**	**M9F42125**	**M9F42225**	**M9F42325**
30		**M9F44130**	**M9F42130**	**M9F42230**	**M9F42330**
35		**M9F44135**	**M9F42135**	**M9F42235**	**M9F42335**
40	240 V only	**M9F44140**	**M9F42140**	**M9F42240**	**M9F42340**

Note: *For accessories and more details, please refer to the Multi**9** catalog.*

*In order to check the availability of the Multi**9** range in your country, please contact your local Schneider Electric representative.*
*Except for the US market, use of the Acti**9** range is still possible.*
*Except for the North American market, Acti**9** range is the another solution.*
For existing version and as well as Ring Terminal version, use C60BPR.

Distribution system protection

Multi**9** miniature circuit breakers

Supplementary protection products - C60SP - UL 1077 - B, C, D curves – Tunnel terminals



Main characteristics

Number of 18 mm/*0.71 in.* poles	Rating (A) 25 °C/77 °F	Breaking capacity (kA rms) AIR UL 1077/CSA C22.2 No 235				Icu IEC 60947 - 2			
Poles	**Voltage (Ue)**	**277 V~**	**240 V~**	**120 V~**	**65 V ⎓**	**440 V~**	**415 V~**	**240 V~**	**60 ⎓**
1P	0.5 to 32	10	14	14	10	–	3	10	20
	40 to 63	5	10	10	10	–	3	10	20
Poles	**Voltage (Ue)**	**480Y/277 V~**		**240 V~**	**125 V ⎓**	**440 V~**	**415 V~**	**240 V~**	**125 ⎓**
2P	1 to 25	10		14	10	6	10	20	–
	32	10		14	–	6	10	20	–
3P/4P	2 to 32	10		14	–	6	10	20	–
2P/3P/4P	40 to 63	5		10	–	6	10	20	–

Tunnel terminal connection

Type	1P			2P		3P		4P	
Auxilliaries	**Remote indication and tripping**								
Rating (In)	Curve			Curve		Curve		Curve	
	B	C	D (=K)	Curve B	C	B	C	B	C
$C60_{SP}$									
0.5	**M9F21170**	**M9F22170**	**M9F23170**	–	–	–	–	–	–
1	**M9F21101**	**M9F22101**	**M9F23101**	**M9F21201**	**M9F22201**	–	–	–	–
2	**M9F21102**	**M9F22102**	**M9F23102**	**M9F21202**	**M9F22202**	**M9F21302**	**M9F22302**	**M9F21402**	**M9F22402**
3	**M9F21103**	**M9F22103**	**M9F23103**	**M9F21203**	**M9F22203**	–	–		
4	**M9F21104**	**M9F22104**	**M9F23104**	**M9F21204**	**M9F22204**	–	–		
5	**M9F21105**	**M9F22105**	**M9F23105**	**M9F21205**	**M9F22205**	–	–		
6	**M9F21106**	**M9F22106**	**M9F23106**	**M9F21206**	**M9F22206**	**M9F21306**	**M9F22306**	**M9F21406**	**M9F22406**
8	**M9F21108**	**M9F22108**	**M9F23108**	**M9F21208**	**M9F22208**	**M9F21308**	**M9F22308**	**M9F21408**	**M9F22408**
10	**M9F21110**	**M9F22110**	**M9F23110**	**M9F21210**	**M9F22210**	**M9F21310**	**M9F22310**	**M9F21410**	**M9F22410**
13	**M9F21113**	**M9F22113**	**M9F23113**	**M9F21213**	**M9F22213**	**M9F21313**	**M9F22313**	**M9F21413**	**M9F22413**
16	**M9F21116**	**M9F22116**	**M9F23116**	**M9F21216**	**M9F22216**	**M9F21316**	**M9F22316**	**M9F21416**	**M9F22416**
20	**M9F21120**	**M9F22120**	**M9F23120**	**M9F21220**	**M9F22220**	**M9F21320**	**M9F22320**	**M9F21420**	**M9F22420**
25	**M9F21125**	**M9F22125**	**M9F23125**	**M9F21225**	**M9F22225**	**M9F21325**	**M9F22325**	**M9F21425**	**M9F22425**
32	**M9F21132**	**M9F22132**	**M9F23132**	**M9F21232**	**M9F22232**	**M9F21332**	**M9F22332**	**M9F21432**	**M9F22432**
40	**M9F21140**	**M9F22140**	**M9F23140**	**M9F21240**	**M9F22240**	**M9F21340**	**M9F22340**	**M9F21440**	**M9F22440**

Note: *For accessories and more details, please refer to the Multi**9** catalog.*

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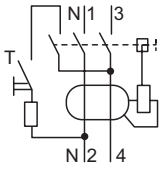
Distribution system protection

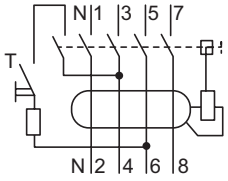
Multi**9** miniature circuit breakers

Ground fault protector (GFP) UL1053 & IEC/EN 61008

UL IEC







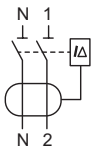
GFP UL 1053 type A-SI

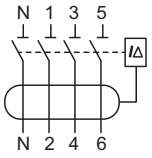
Supported standards	UL, IEC			2P		4P	
A-SI type	Rating (A)	Sensitivity (mA)		Reference		Reference	
		UL 1053	IEC / EN 61008	120 or 240 V 230 or 240 V	240 V 480 V / 277 V 230 / 400 or 240 / 415 V	120 or 240 V 230 or 240 V	240 V 480 V / 277 V 230 / 400 or 240 / 415 V
	A	mA	mA				
	25	26	30	**M9R81225**	**M9R41225**	–	**M9R81425**
		86	100	**M9R12225**	**M9R44225**	–	**M9R12425**
		260	300	**M9R84225**	–	–	**M9R84425**
	40	26	30	**M9R81240**	**M9R41240**	–	**M9R81440**
		260	300	**M9R84240**	–	–	**M9R84440**
	63	26	30	**M9R81263**	–	–	**M9R81463**
		86	**100**	–	–	–	**M9R12463**
	100	86	100	–	–	–	**M9R12491**
		260	100	–	–	–	**M9R84491**

Residual current circuit breakers (RCCB) ID - IEC/EN 61008-1

IEC





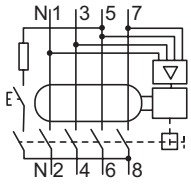


RCCB - ID residual current circuit breakers

Type		AC		A - SI	
Auxiliaries	2P				
	Sensitivity	30 mA	300 mA	30 mA	300 mA
	25 A	**M9R11225**	–	–	–
	40 A	**M9R11240**	**M9R14240**	**M9R31240**	**M9R35240**
Voltage rating (Ue)		230-240 V, 50 Hz			
Auxiliaries	4P				
	40 A	**M9R11440**	**M9R14440**	**M9R31440**	**M9R35440**
	63 A	**M9R11463**	**M9R11463**	**M9R31463**	**M9R35463**
Voltage rating (Ue)		400 - 415 V, 50 Hz			

IEC





Acti9 iID B-SI type residual current circuit breakers

Type			B-SI			
4P	Rating (A)	Sensitivity	30 mA	300 mA	300 mA S	500 mA
	25	B-SI	**A9Z61425**	**A9Z64425**	–	–
	40	B-SI	**A9Z61440**	**A9Z64440**	**A9Z65440**	**A9Z66440**
	63	B-SI	**A9Z61463**	**A9Z64463**	**A9Z65463**	**A9Z66463**
	40	B-SI	**A9Z61480**	**A9Z64480**	**A9Z65480**	**A9Z66480**
	125	B	**16763**	**16764**	**16765**	**16766**
Voltage rating (Ue)			230/400 V			
Operating frequency			50 Hz			

Note: *For accessories and more details, please refer to the Multi**9** catalog.*

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IEC



PowerTag Energy 63 A

Pole	Design	Type of mounting	Reference
1P + wire	Monoconnect	Top and Bottom	**A9MEM1520**
1P + N	Monoconnect	Top	**A9MEM1521**
	Monoconnect	Bottom	**A9MEM1522**
	Flex	Top and Bottom	**A9MEM1560**
3P	Monoconnect	Top and Bottom	**A9MEM1540**
	Flex	Top and Bottom	**A9MEM1573** *(1)*
3P + N	Monoconnect	Top	**A9MEM1541**
	Monoconnect	Bottom	**A9MEM1542**
	Flex	Top and Bottom	**A9MEM1570**



PowerTag Energy Flex 160 A

Pole	Rating	Reference
3P/3P + N	160 A	**A9MEM1580**

(1) Suitable with TeSys LC1D and GV<63A
(2) Suitable with GV5
(3) Suitable with GV6



PowerTag Energy Monoconnect 250/630 A

Pole	Rating	Reference
3P	250 A	**LV434020** *(2)*
	630 A	**LV434022** *(3)*
3P + N	250 A	**LV434021**
	630 A	**LV434023**



PowerTag Energy Rope up to 2000 A

Pole	Rating	Reference
3P/3P + N	200 A	**A9MEM1590**
	600 A	**A9MEM1591**
	1000 A	**A9MEM1592**
	2000 A	**A9MEM1593**

IEC



Main characteristics of EcoStruxure Panel Server (Ethernet)

Application	Metering and monitoring solutions	
Communication type	Radio frequency and Modbus RS485	
Number of connected sensors	Entry Panel Server	Up to 20 wireless devices
	Universal Panel Server	Up to 100 wireless devices, and Up to 32 Modbus RS485
	Devices Without Repeater	Up to 128 Modbus RS485 without repeater

Ecostruxure Panel server

Type	Set	Reference
Entry Panel Server	1	**PAS400**
Universal Panel Sever	1	**PAS600L** (24VDC Power supply)
		PAS600T (110 - 240 V AC/DC Power Supply)
		PAS600 (110 - 270 V AC/DC Power Supply)

Note: *For accessories and more details, please refer to the PowerTag and Panel Server catalogs.*

Energy meter and power meter





Energy meter

Type of network	1P+N	1P+N	1P+N, 3P, 3P+N
Self-powered	Yes	Yes	Yes
Display	1 line	1 line	3 lines
Width (mm)	17.5	36	90
Current input	45 A	63 A	63 A
Multi tariff	2	-	-
Communication	Modbus RS485	Modbus RS485	Modbus RS485
Active Energy accuracy	Cl 1	Cl 1	Cl 1
I/O	1 Pulse O	-	-
Reference	**A9MEM2050**	**A9MEM2150**	**A9MEM3150**

Power meter

Type of network	1P+N, 3P, 3P+N	1P+N, 3P, 3P+N	1P+N, 3P, 3P+N
Self-powered	No	No	No
Display	6 lines	6 lines	6 lines
Width (mm)	96	96	96
Current input	External CT	External CT	External CT
Multi tariff	-	4	8
Communication	Modbus RS485	Ethernet	Ethernet
Active Energy accuracy	Cl 0.5S with 15th harmonic	Cl 0.5S with 31st harmonic	Cl 0.2S with 63rd harmonic
I/O	1DO	2DI/ 2DO	2DI/ 2DO
Reference	**METSEPM5110**	**METSEPM5320**	**METSEPM5560**

Note: *For more details, please refer to the PowerLogic catalog.*



04. Altivar soft starters and Altivar variable speed drives

Altivar Soft Starter ATS01 is for HVAC, pumps, compressors, and other basic motors


1


2

1 Altivar soft starter ATS01 for 0.37 to 11 kW motors and single or 3-phase supply voltage 110...480 V 50/60 Hz *(1)*											
Power for single-phase motor *(2)*	Under 230 V (kW)	0.37		0.75		1.1	1.5	2.2			
Power for 3-phase motor *(2)*	Under 110 V (HP)	–	–	0.5	–	1	1.5	2	3		
	Under 230 V (kW)	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	
	Under 230 V (HP)	0.5	–	1	1.5	2	3	5	7.5		
	Under 400 V (KW)	1.1	–	2.2	3	4	5.5	7.5	9	11	
	Under 460 V (HP)	0.5	1.5	2	*3*	5	7.5	10	15		
Nominal current IcL (A) *(3)*		3		6		9	12	25			
Reference		**ATS01N103FT**		**ATS01N106FT**		**ATS01N109FT**	**ATS01N112FT**	**ATS01N125FT**			

2 Three-phase supply voltage: 200…240 V 50/60 Hz- Replace the ●● with LU						
Motor Power in KW	0.75/1.1	1.5	2.2/3	4/5.5	7.5	**ATS01●●●●LU**
Motor Power in HP	1/1.5	2	3/-	5/7.5	10	
Three-phase supply voltage: 380…415 V 50/60 Hz- Replace the ●● with QN						
Motor Power in KW	1.5/2.2/3	4	5.5	7.5/11	15	**ATS01●●●●QN**
Three-phase supply voltage: 440…480 V 50/60 Hz- Replace the ●● with RT						
Motor Power in HP	2/3	5	7.5	10/15	20	**ATS01●●●●RT**
IcL starter rating (A) *(3)*	6	9	12	22	32	
References	**ATS01N206●●**	**ATS01N209●●**	**ATS01N212●●**	**ATS01N222●●**	**ATS01N232●●**	

(1) Number of possible start-stops/hour: 100 for starting time of 1 s maximum, 20 for starting time of 5 s maximum.
(2) Standard motor power ratings, HP power ratings indicated according to standard UL508.
(3) IcL corresponds to the starter rating.

4

Altivar Soft Starter ATS130 is for HVAC, pumps, compressors, and other basic motors



Altivar Soft Starter ATS130 3-phase supply voltage 200...480 V 50/60 Hz *(8)*, and 24V DC control power supply *(4)*							
Motor power *(5)*	208V (HP)	10	10	20	20	25	30
	230V (kW)	11	11	18.5	22	22	30
	230V (HP)	10	15	20	25	30	40
	400V (kW)	18.5	22	30	37	45	55
	460V (HP)	25	30	40	50	60	75
Rated operational current IcL (A)		38	45	65	73	80	105
Reference		**ATS130N2D38LT**	**ATS130N2D38LT**	**ATS130N2D65LT**	**ATS130N2D73LT**	**ATS130N2D80LT**	**ATS130N2C11LT**



Build your motor starter with ATS130							
	Thermal-Magnetic circuit breaker	**GV3P●●1**	**GV3P●●1**	**GV3P●●1**	**GV3P●●1**	**GV4P●●**	**GV4P●●**
	Fixing kit *(7)*	**VW3G921304**				**VW3G921305**	
	Altivar Soft Starter ATS130 *(6)}*	**ATS130N2D38LT**	**ATS130N2D45LT**	**ATS130N2D65LT**	**ATS130N2D73LT**	**ATS130N2D80LT**	**ATS130N2C11LT**
	Optional cooling fan *(8)*	**VW3G941305**					

(4) Number of possible start-stops/hour: 50 for starting time of 1s maximum, 10 for starting time 5s maximum, 5 for starting of 10 s maximum.
(5) IE3 motor power ratings, HP power ratings indicated according to standard UL508.
(6) Reduction of number of start- stops / hour for this mounting conditions . For more details, please refer to the product datasheet on our website www.se.com.
(7) Fixing kits for GV3 or GV4 used to maintain in position the circuit breaker and to connect it to ATS130.
(8) The number of starts per hour can be increased by adding a fan. For more details, please refer to the product datasheet on our website www.se.com.

Altivar Soft Starter ATS22 is for building and industrial segments



1



2

1 Altivar soft starter ATS22 units for 3-phase power supply voltage 230...440 V and 220 V 50-60 Hz control power supply Connection in the motor power supply line or in the motor delta connection *(1)*

Motor power in kW (motor power supply line)	230 V	4	7.5	11	15	18.5	22	30	37
	400 V	7.5	15	22	30	37	45	55	75
	440 V	7.5	15	22	30	37	45	55	75
Nominal current IcL (A) *(2)*		17	32	47	62	75	88	110	140
Number of starts/hour	Without fan	6	6	6	6	6	6	4	4
	With fan *(3)*	10	10	10	10	10	10	10	10
Reference		**ATS22D17Q**	**ATS22D32Q**	**ATS22D47Q**	**ATS22D62Q**	**ATS22D75Q**	**ATS22D88Q**	**ATS22C11Q**	**ATS22C14Q**

Motor power in kW (motor power supply line)	230 V	45	55	75	90	110	132	160
	400 V	90	110	132	160	220	250	315
	440 V	90	110	132	160	220	250	355
Nominal current IcL (A) *(2)*		170	210	250	320	410	480	590
Number of starts/hour	Without fan	4	–	–	–	–	–	–
	With fan *(3)*	10	4	4	4	4	4	4
Reference		**ATS22C17Q**	**ATS22C21Q**	**ATS22C25Q**	**ATS22C32Q**	**ATS22C41Q**	**ATS22C48Q**	**ATS22C59Q**

2 Altivar soft starter ATS22 units for 3-phase power supply voltage 230...500 V and 220 V 50-60 Hz control power supply Connection in the motor power supply line

Motor power in kW	230 V	4	7.5	11	15	18.5	22	30	37
	400 V	7.5	15	22	30	37	45	55	75
	440 V	7.5	15	22	30	37	45	55	75
	500 V	9	18.5	30	37	45	55	75	90
Nominal current IcL (A) *(2)*		17	32	47	62	75	88	110	140
Number of starts/hour	Without fan	–	–	–	–	–	–	–	
	With fan *(3)*	4	4	4	4	4	4	4	
References		**ATS22D17S6**	**ATS22D32S6**	**ATS22D47S6**	**ATS22D62S6**	**ATS22D75S6**	**ATS22D88S6**	**ATS22C11S6**	**ATS22C14S6**

Motor power in kW	230 V	45	55	75	90	110	132	160
	400 V	90	110	132	160	220	250	315
	440 V	90	110	132	160	220	250	355
	500 V	110	132	160	220	250	315	400
Nominal current IcL (A) *(2)*		170	210	250	320	410	480	590
Number of starts/hour	Without fan	4	–	–	–	–	–	–
	With fan *(3)*	10	4	4	4	4	4	4
Reference		**ATS22C17S6**	**ATS22C21S6**	**ATS22C25S6**	**ATS22C32S6**	**ATS22C41S6**	**ATS22C48S6**	**ATS22C59S6**

***Note**: All values given for Altivar soft starter ATS22 are defined for 3.5 x In and 20 s starting time, with motors with thermal protection class 10. These values are for an ambient temperature of 40 °C.*

(1) When connected in the delta configuration, starters allow the use of motors of a larger rating relative to that of the starter. In this configuration, the nominal motor current should not exceed 1.5 IcL.

(2) IcL corresponds to the starter rating.

(3) All soft starters from motor power 55 kW to 160 kW (ATS22C21.. to ATS22C59..) are equipped with a fan as standard.
For soft starters under 55 kW (ATS22D17.. to ATS22C17..), the number of starts per hour can be increased by adding a fan. For more details, please refer to the product datasheets on our website www.se.com.

Altivar 212 - IP21 drives for building and HVAC projects (fan, pump, compressor)





Three-phase supply voltage: 200…240 V 50/60 Hz, without EMC filter *(1)*							
Motor	Power indicated on rating plate in kW	0.75	1.5	2.2	3	4	5.5
	Power indicated on rating plate in HP	1	2	3	–	5	7.5
Altivar 212	Max. continuous output current (In) 230 V in A *(2)*	4.6	7.5	10.6	13.7	18.7	24.2
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	107 x 192 x 150			142 x 232 x 150		180 x 307 x 170
	EMC plate not mounted (mm)	107 x 143 x 150			142 x 184 x 150		180 x 232 x 170
Reference		**ATV212H075M3X**	**ATV212HU15M3X**	**ATV212HU22M3X**	**ATV212HU30M3X**	**ATV212HU40M3X**	**ATV212HU55M3X**

Motor	Power indicated on rating plate in kW	7.5	11	15	18.5	22	30
	Power indicated on rating plate in HP	10	15	20	25	30	40
Altivar 212	Max. continuous output current (In) 230 V in A *(2)*	32	46.2	61	74.8	88	117
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	180 x 307 x 170	245 x 405 x 190			240 x 542 x 214	320 x 723 x 290
	EMC plate not mounted (mm)	180 x 232 x 170	246 x 330 x 190			240 x 420 x 214	320 x 605 x 290
Reference		**ATV212HU75M3X**	**ATV212HD11M3X**	**ATV212HD15M3X**	**ATV212HD18M3X**	**ATV212HD22M3X**	**ATV212HD30M3X**

Three-phase supply voltage: 380…480 V 50/60 Hz, with integrated category C2 or C3 EMC filter *(1)*							
Motor	Power indicated on rating plate in kW	0.75	1.5	2.2	3	4	5.5
	Power indicated on rating plate in HP	1	2	3	3	5	7.5
Altivar 212	Max. continuous output current (In) in A *(2)*	2.2	3.7	5.1	7.2	9.1	12
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	107 x 192 x 150			142 x 232 x 150		
	EMC plate not mounted (mm)	107 x 143 x 150			142 x 184 x 150		
Reference		**ATV212H075N4**	**ATV212HU15N4**	**ATV212HU22N4**	**ATV212HU30N4**	**ATV212HU40N4**	**ATV212HU55N4**

Motor	Power indicated on rating plate in kW	7.5	11	15	18.5	22	22
	Power indicated on rating plate in HP	10	15	20	25	30	30
Altivar 212	Max. continuous output current (In) in A *(2)*	16	22.5	30.5	37	43.5	43.5
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	180 x 307 x 170			245 x 405 x 190		240 x 542 x 214
	EMC plate not mounted (mm)	180 x 232 x 170			245 x 330 x 190		240 x 420 x 214
Reference		**ATV212HU75N4**	**ATV212HD11N4**	**ATV212HD15N4**	**ATV212HD18N4**	**ATV212HD22N4S**	**ATV212HD22N4**

Motor	Power indicated on rating plate in kW	30	37	45	55	75
	Power indicated on rating plate in HP	40	50	60	75	100
Altivar 212	Max. continuous output current (In) in A *(2)*	58.5	79	94	116	160
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	240 x 542 x 214	240 x 663 x 244		320 x 723 x 290	
	EMC plate not mounted (mm)	240 x 420 x 214	240 x 550 x 244		320 x 605 x 290	
Reference		**ATV212HD30N4**	**ATV212HD37N4**	**ATV212HD45N4**	**ATV212HD55N4**	**ATV212HD75N4**

(1) Drives are supplied with an EMC plate, for customer assembly.

(2) These values are given for a nominal switching frequency of 12 kHz up to ATV212HD15M3X and up to ATV212HD15N4 or 8 kHz for ATV21HD18M3X…HD30M3X and ATV212HD18N4…HD75N4, for use in continuous operation. The switching frequency can be set between 6 and 16 kHz for all ratings. Above 8 kHz or 12 kHz, depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current. The nominal motor current must not exceed this derating value. See the derating curves on our website www.se.com.

Setup ATV212 with “Ecostuxure Industrial Device” Mobile Application



Free

“Ecostruxure Industrial Device” moile application for IOS or Android

Download the application via application stores:

Modbus RS232 Serial Cable with RJ45 Connectors on both sides

Ecostruxure Device Connector - Bluefer is necessary to connect mobile application to ATV212

Altivar 12 ultra-compact variable speed drives for commercial equipment



1



2

1 Altivar 12 drives with heatsink and single-phase supply voltage: 100...120 V 50/60 Hz *(1) (2)*

Motor	Power indicated on plate in kW *(3)*	0.18	0.37	0.75				
	Power indicated on plate in HP *(3)*	0.25	0.5	1				
Altivar 12	Max. continuous output current *(3)*	1.4	2.4	4.2				
	Embedded communication	Modbus Serial Line						
	Application intelligence	Embedded functions						
	Withstand to harsh environment	Up to 60 °C with derating						
Dimensions: W x H x D (mm) *(4)*		72 x 143 x 102	72 x 143 x 121	105 x 142 x 156				
Reference		**ATV12 H018F1** *(4)*	**ATV12 H037F1**	**ATV12 H075F1**				

Altivar 12 drives with heatsink and single-phase supply voltage: 200...240 V 50/60 Hz *(1) (2)*

Motor	Power indicated on plate in kW *(3)*	0.18	0.37	0.55	0.75	1.5	2.2	
	Power indicated on plate in HP *(3)*	0.25	0.55	0.75	1	2	3	
Altivar 12	Max. continuous output current *(3)*	1.4	2.4	3.5	4.2	7.5	10	
Dimensions: W x H x D (mm) *(4)*		72 x 143 x 102	72 x 143 x 121	72 x 143 x 131		105 x 142 x 156		
Reference		**ATV12 H018M2** *(4)*	**ATV12 H037M2**	**ATV12 H055M2**	**ATV12 H075M2**	**ATV12 HU15M2**	**ATV12 HU22M2**	

Altivar 12 drives with heatsink and three-phase supply voltage: 200...240 V 50/60 Hz *(1) (2)*

Motor	Power indicated on plate in kW *(3)*	0.18	0.37	0.75	1.5	2.2	3	4
	Power indicated on plate in HP *(3)*	0.25	0.55	1	2	3	–	5
Altivar 12	Max. continuous output current *(3)*	1.4	2.4	4.2	7.5	10	12.2	16.7
Dimensions: W x H x D (mm) *(4)*		72 x 143 x 102	72 x 143 x 121	72 x 143 x 131	105 x 143 x 131		140 x 184 x 141	
Reference		**ATV12 H018M3** *(4)*	**ATV12 H037M3**	**ATV12 H075M3**	**ATV12 HU15M3**	**ATV12 HU22M3**	**ATV12 HU30M3**	**ATV12 HU40M3**

2 Accessories for Altivar 12 drives

Accessory	Simple Loader configuration tool *(5)*	Multi-Loader configuration tool *(5)*	USB/RJ45 cable for PC-drive connection
Compatibility	All Altivar 12 variable speed drives		
Reference	**VW3A8120**	**VW3A8121**	**TCSMCNAM3M002P**

***Note**: Altivar 12 variable speed drives are designed for 3-phase asynchronous motors.*
(1) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)…120 V (U2), 200 (U1)…240 V (U2).
(2) Altivar 12 variable speed drives are supplied with built-in EMC filters and comply with standard IEC/EN 61800-3. For more information, please refer to the product datasheet on our website www.se.com.
(3) These values are given for a nominal switching frequency of 4 kHz, for continuous operation. For derated operation, please refer to the product catalog. ATV12 variable speed drives can supply a transient output current of 1.5 x In for 60 s for every 10 min. cycle.
(4) All dimensions provided are without EMC plate installed.
(5) For more information about this tool, please refer to the product datasheet on our website www.se.com.

Communication modules and accessories for ATV320 variable speed drives



3



4

3 Communication buses and networks for ATV320

Type of communication module *(6)*	CANopen daisy chain *(7) (8) (9)*	CANopen SUB-D9 *(7) (8) (9)*	CANopen open style *(7) (8) (9)*
Reference	**VW3A3608**	**VW3A3618**	**VW3A3628**
Type of communication module *(6)*	Modbus TCP and Ethernet/IP network module *(8)*	PROFIBUS DP V1 communication module *(8)*	DeviceNet communication module *(8)*
Reference	**VW3A3616**	**VW3A3607**	**VW3A3609**
Type of communication module *(6)*	EtherCat communication module *(8)*	ProfiNet communication module *(8)*	Powerlink Communication module
Reference	**VW3A3601**	**VW3A3627**	**VW3A3619**

4 Accessories

Type of accessory	Communication adapter module *(6)*	Advance keypad	
Compatibility	ATV320● compact	All Altivar Machine ATV320 variable speed drives	
Reference *(8)*	**VW3A3600**	**VW3A1111**	
Type of accessory	Simple Loader configuration tool *(10)*	Multi-Loader configuration tool *(10)*	USB/RJ45 cable for PC-drive connection
Compatibility	All Altivar Machine ATV320 variable speed drives		
Reference	**VW3A8120**	**VW3A8121**	**TCSMCNAM3M002P**

(6) Altivar Machine ATV320 products with a compact control block require the VW3A3600 option adapter module in order to use any optional communication module.
(7) The Modbus serial link always uses the RJ45 communication port. If simultaneous use of the Modbus serial link and the CANopen machine bus is required, a CANopen communication module is needed.
(8) The Altivar Machine ATV320 drive can only take one communication module.
(9) When one of the CANopen communication modules is inserted in the Altivar Machine ATV320 drive, CANopen communication via the RJ45 communication port is disabled.
(10) For more information about this tool, please refer to the product datasheet on our website www.se.com.

Altivar Machine ATV320 variable speed drives for simple and advanced machines



1 ATV320 drives with compact control block and single-phase supply voltage 200...240 V 50/60 Hz

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current *(1)*	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm)		72 x 143 x 109	72 x 143 x 128	72 x 143 x 138		105 x 142 x 158		
Reference		**ATV320 U02M2C**	**ATV320 U04M2C**	**ATV320 U06M2C**	**ATV320 U07M2C**	**ATV320 U11M2C**	**ATV320 U15M2C**	**ATV320 U22M2C**

ATV320 drives with compact control block and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current *(1)*	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm)		105 x 143 x 158					140 x 184 x 158		
Reference		**ATV320 U04N4C**	**ATV320 U06N4C**	**ATV320 U07N4C**	**ATV320 U11N4C**	**ATV320 U15N4C**	**ATV320 U22N4C**	**ATV320 U30N4C**	**ATV320 U40N4C**

Motor	Power indicated on plate in kW	5.5	7.5	11	15
	Power indicated on plate in HP	7.5	10	15	20
Altivar 320	Max. continuous output current *(1)*	14.3	17	27.7	33
Dimensions: W x H x D (mm)		150 x 232 x 178		180 x 330 x 198	
Reference		**ATV320 U55N4C**	**ATV320 U75N4C**	**ATV320 D11N4C**	**ATV320 D15N4C**

ATV320 drives with book control block and single-phase supply voltage 200...240 V 50/60 Hz

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current *(1)*	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm)		45 x 325 x 245				60 x 325 x 245		
Reference		**ATV320 U02M2B**	**ATV320 U04M2B**	**ATV320 U06M2B**	**ATV320 U07M2B**	**ATV320 U11M2B**	**ATV320 U15M2B**	**ATV320 U22M2B**

ATV320 drives with book control block and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current *(1)*	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm)		45 x 325 x 245					60 x 325 x 245		
Reference		**ATV320 U04N4B**	**ATV320 U06N4B**	**ATV320 U07N4B**	**ATV320 U11N4B**	**ATV320 U15N4B**	**ATV320 U22N4B**	**ATV320 U30N4B**	**ATV320 U40N4B**

Motor	Power indicated on plate in kW	5.5	7.5	11	15
	Power indicated on plate in HP	7.5	10	15	20
Altivar 320	Max. continuous output current *(1)*	14.3	17	27.7	33
Dimensions: W x H x D (mm)		150 x 232 x 232		180 x 330 x 232	
Reference		**ATV320 U55N4B**	**ATV320 U75N4B**	**ATV320 D11N4B**	**ATV320 D15N4B**

2 Altivar with high IP enclosure and single-phase supply voltage: 200...240 V 50/60HZ

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current *(1)*	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm) *(2)*		250 x 340 x 182				250 x 340 x 235		
Reference		**ATV320 U02M2W(S)**	**ATV320 U04M2W(S)**	**ATV320 U06M2W(S)**	**ATV320 U07M2W(S)**	**ATV320 U11M2W(S)**	**ATV320 U15M2W(S)**	**ATV320 U22M2W(S)**

Altivar with high IP enclosure and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current *(1)*	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm) *(2)*		250 x 340 x 200					250 x 340 x 235		
Reference		**ATV320 U04N4W(S)**	**ATV320 U06N4W(S)**	**ATV320 U07N4W(S)**	**ATV320 U11N4W(S)**	**ATV320 U15N4W(S)**	**ATV320 U15M2W(S)**	**ATV320 U30N4W(S)**	**ATV320 U40N4W(S)**

Motor	Power indicated on plate in kW	5.5	7.5
	Power indicated on plate in HP	7.5	10
Altivar 320	Max. continuous output current *(1)*	14.3	17
Dimensions: W x H x D (mm) *(2)*		320 x 521 x 335	
Reference		**ATV320 U55N4W(S)**	**ATV320 U75N4W(S)**

Note: *Altivar Machine ATV320 variable speed drives are designed for 3-phase synchronous and asynchronous motors. ATV320 drives are supplied with braking chopper as standard. For braking resistor selection, please refer to the product catalog on our website www.se.com.*

(1) Altivar Machine ATV320 variable speed drives can supply a transient output current of 1.5 x In for 60 s.

(2) To obtain the new references for ATV320 IP66 drives, replace the last character with "W" (without switch) or "WS" (with switch).



05. Harmony interface, measurement and control relays

www.se.com

Zelio Logic smart relays


1


2


3

Compact smart relays and compact “discovery” packs

AC supply voltage		24 VAC		48 VAC	100...240 VAC			
Number of inputs/outputs		12	20	20	10	12	20	20
Number of discrete inputs		8	12	12	6	8	12	12
Number of outputs		4 relay	8 relay	8 relay	4 relay	4 relay	8 relay	8 relay
Clock		Yes	Yes	No	No	Yes	No	Yes
Compact smart relays	With display	**SR2B121B**	**SR2B201B**	**SR2A201E**	**SR2A101FU** *(1)*	**SR2B121FU**	**SR2A201FU** *(1)*	**SR2B201FU**
	Without display 1	**SR2E121B**	**SR2E201B**	–	**SR2D101FU** *(1)*	**SR2E121FU**	**SR2D201FU** *(1)*	**SR2E201FU**
Compact discovery packs *(2)*		–	–	–	–	**SR2PACKFU**	–	**SR2PACK2FU** 3
DC supply voltage		12 VDC			24 VDC			
Number of inputs/outputs		12	20		10	12	20	20
Number of discrete inputs		8	12		6	8	12	12
including 0-10 V analog inputs		4	6		–	4	2	6
Number of outputs		4 relay	8 relay		4 relay	4	8 relay	8
Clock		Yes	Yes		No	Yes	No	Yes
Compact smart relays	With display	**SR2B121JD**	**SR2B201JD**		**SR2A101BD** *(1)*	**SR2B12●BD** *(3)*	**SR2A201BD** *(1)*	**SR2B20●BD** *(3)*
	Without display	–	–		**SR2D101BD** *(1)*	**SR2E121BD**	**SR2D201BD** *(1)*	**SR2E201BD**
Compact discovery packs *(2)*		–	–		–	**SR2PACKBD**	–	**SR2PACK2BD** 3

Modular smart relays *(4)* with display and modular “discovery” packs

Supply voltage	24 VAC		100...240 VAC		12 VDC	24 VDC	
Number of inputs/outputs	10	26	10	26	26	10	26
Number of discrete inputs	6	16	6	16	16	6	16
including 0-10 V analog inputs	–	–	–	–	6	4	6
Number of outputs	4 relay	10 relay	4 relay	10 relay	10 relay	4	10
Clock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modular smart relays 2	**SR3B101B**	**SR3B261B**	**SR3B101FU**	**SR3B261FU**	**SR3B261JD**	**SR3B10●BD** *(5)*	**SR3B26●BD** *(5)*
Modular discovery packs *(2)*	–	–	**SR3PACKFU**	**SR3PACK2FU**	–	**SR3PACKBD**	**SR3PACK2BD** 3


4


5

Extension modules for Zelio Logic SR3B●●●●● *(6)*

Type of module	Communication modules 4		Discrete I/O modules 5			Analog I/O modules
Network type	Modbus	Ethernet	–			–
Number of inputs/outputs	–	–	6	10	14	4
Number of discrete inputs	–	–	4	6	8	2 (0…10 V, 0...20 mA, PT100)
Number of outputs	–	–	2 relay	4 relay	6 relay	2 (0…10 V)
References 24 VAC	–	–	**SR3XT61B**	**SR3XT101B**	**SR3XT141B**	–
100...240 VAC	–	–	**SR3XT61FU**	**SR3XT101FU**	**SR3XT141FU**	–
12 VDC	–	–	**SR3XT61JD**	**SR3XT101JD**	**SR3XT141JD**	–
24 VDC	**SR3MBU01BD**	**SR3NET01BD**	**SR3XT61BD**	**SR3XT101BD**	**SR3XT141BD**	**SR3XT43BD**

Zelio Soft 2 software and accessories

Type of device	Zelio Soft multilingual programming software	Connecting cables		Wireless connection	Back-up memory
Description	Free downloadable file on se.com *(7)*	Serial PC/Smart relay	USB PC/Smart relay	Bluetooth interface	EEPROM
References	**ESR2SFT01**	**SR2CBL01**	**SR2USB01**	**SR2BTC01**	**SR2MEM02**

(1) Programming on smart relay in LADDER language only.
(2) The packs are composed of one smart relay with display and relay output, and one SR2USB01 connecting cable.
(3) Replace the ● with the number 1 to order a smart relay with relay output or the number 2 for a smart relay with transistor output (e.g. SR2B121BD).
(4) The modular base can be equipped with one I/O extension module. The 24 VDC modular base can be equipped with one communication module and/or one I/O extension module.
(5) Replace the ● with the number 1 to order a smart relay with relay output or the number 2 for a smart relay with transistor output (e.g. SR3B101BD).
(6) The power supply for the extension modules is provided via the Zelio Logic modular relays.
(7) Programming software for Zelio Logic is freely available on se.com. This software is compatible with Windows 10.

Harmony Relay RXG and RSB electromechanical relays



RXG interface relays

Type		RXG relays without test button				RXG relays with test button			
Contact		1 CO		2 CO		1 CO		2 CO	
Current		10 A		5 A		10 A		5 A	
Connection		Flat pins (Faston type)				Flat pins (Faston type)			
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	6 VDC	–	–	–	–	–	**RXG12RD**	**RXG21RD**	–
	12 VDC	**RXG15JD**	**RXG13JD**	–	–	**RXG11JD**	**RXG12JD**	**RXG21JD**	**RXG22JD**
	24 VDC	**RXG15BD**	**RXG13BD**	**RXG25BD**	**RXG23BD**	**RXG11BD**	**RXG12BD**	**RXG21BD**	**RXG22BD**
	48 VDC	–	–	–	–	–	**RXG12ED**	–	**RXG22ED**
	110 VDC	–	–	–	–	–	**RXG12FD**	–	**RXG22FD**
	24 VAC	–	**RXG13B7**	**RXG25B7**	**RXG23B7**	**RXG11B7**	**RXG12B7**	**RXG21B7**	**RXG22B7**
	48 VAC	–	–	–	**RXG23E7**	–	**RXG12E7**	**RXG21E7**	**RXG22E7**
	120 VAC	**RXG15F7**	**RXG13F7**	**RXG25F7**	**RXG23F7**	**RXG11F7**	**RXG12F7**	**RXG21F7**	**RXG22F7**
	220 VAC	–	–	**RXG25M7**	**RXG23M7**	–	–	**RXG21M7**	**RXG22M7**
	230 VAC	**RXG15P7**	**RXG13P7**	**RXG25P7**	**RXG23P7**	**RXG11P7**	**RXG12P7**	**RXG21P7**	**RXG22P7**
Screw connector socket		**RGZE1S35M**		**RGZE1S48M**		**RGZE1S35M**		**RGZE1S48M**	
Screw clamp socket		**RGZE05E**		**RGZE08E**		**RGZE05E**		**RGZE08E**	
Push-in socket		**RGZE05P**		**RGZE08P**		**RGZE05P**		**RGZE08P**	
Pre-mounted product	24 VDC	–	**RXG13BDPV**	–	**RXG23BDPV**	–	**RXG12BDPV**	**RXG21BDPV**	**RXG22BDPV**
	24 VAC	–	–	–	–	–	**RXG12B7PV**	**RXG21B7PV**	**RXG22B7PV**
	230 VAC	–	**RXG13P7PV**	–	**RXG23P7PV**	–	**RXG12P7PV**	**RXG21P7PV**	**RXG22P7PV**

Note: *RXG pre-mounted version includes: Relay + Screw connector socket + Protection Module (Diode for DC coil/Varistor for AC coil) + clamp, sold in lots of 30 units.*



RSB interface relay

Contact		1 CO	1 CO	2 CO
Current		12 A	16 A	8 A
Connection		PCB Type		
Complete product	12 VDC	**RSB1A120JD**	**RSB1A160JD**	**RSB2A080JD**
	24 VDC	**RSB1A120BD**	**RSB1A160BD**	**RSB2A080BD**
	48 VDC	**RSB1A120ED**	**RSB1A160ED**	**RSB2A080ED**
	110 VDC	**RSB1A120FD**	**RSB1A160FD**	**RSB2A080FD**
	24 VAC	**RSB1A120B7**	**RSB1A160B7**	**RSB2A080B7**
	48 VAC	**RSB1A120E7**	**RSB1A160E7**	**RSB2A080E7**
	120 VAC	**RSB1A120F7**	**RSB1A160F7**	**RSB2A080F7**
	220 VAC	**RSB1A120M7**	**RSB1A160M7**	**RSB2A080M7**
	230 VAC	**RSB1A120P7**	**RSB1A160P7**	**RSB2A080P7**
	240 VAC	**RSB1A120U7**	**RSB1A160U7**	**RSB2A080U7**
Screw connector socket		**RSZE1S35M**	**RSZE1S48M**	**RSZE1S48M**
Push-in socket		**RSZE05P**	**RSZE08P**	**RSZE08P**
Pre-mounted product	12 VDC	**RSB1A120JDPV**	–	**RSB2A080JDPV**
	24 VDC	**RSB1A120BDPV**	**RSB1A160BDPV**	**RSB2A080BDPV**
	24 VAC	**RSB1A120B7PV**	–	**RSB2A080B7PV**
	120 VAC	**RSB1A120F7PV**	–	**RSB2A080F7PV**
	220 VAC	–	–	**RSB2A080M7PV**
	230 VAC	**RSB1A120P7PV**	**RSB1A160P7PV**	**RSB2A080P7PV**

Note: *RSB pre-mounted version includes: Relay + Screw connector socket + Protection Module + Clamp + Label, sold in lots of 30 units.*

Harmony Relay RSL, RXM and RPM electromechanical relays





RSL interface relays

Type		RSL relays		Sockets for RSL relays		Pre-assembled relays/sockets	
Contact		1 CO		–		1 CO	
Current		6 A - standard	6 A - low level	–		6 A	
Connection		PCB pins		Screw connector	Spring terminal	Screw connector	Spring terminal
LED display		Without LED		–		With LED	
Complete product	12 VAC/VDC	**RSL1AB4JD**	**RSL1GB4JD**	**RSLZVA1**	**RSLZRA1**	**RSL1PVJU**	**RSL1PRJU**
	24 VAC/VDC	**RSL1AB4BD**	**RSL1GB4BD**	**RSLZVA1**	**RSLZRA1**	**RSL1PVBU**	**RSL1PRBU**
	48 VAC/VDC	**RSL1AB4ED**	**RSL1GB4ED**	**RSLZVA2**	**RSLZRA2**	**RSL1PVEU**	**RSL1PREU**
	60 VAC/VDC	**RSL1AB4ND**	**RSL1GB4ND**	**RSLZVA2**	**RSLZRA2**	–	
	110 VAC/VDC	–		–		**RSL1PVFU**	**RSL1PRFU**
	230 VAC/VDC	–		–		**RSL1PVPU**	**RSL1PRPU**



RXM•AB miniature relays

Type		RXM•AB relays with test button					
Contact		2 CO		3 CO		4 CO	
Current		12 A		10 A		6 A	
Connection		Flat pins (Faston type)					
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	12 VDC	**RXM2AB1JD**	**RXM2AB2JD**	**RXM3AB1JD**	**RXM3AB2JD**	**RXM4AB1JD**	**RXM4AB2JD**
	24 VDC	**RXM2AB1BD**	**RXM2AB2BD**	**RXM3AB1BD**	**RXM3AB2BD**	**RXM4AB1BD**	**RXM4AB2BD**
	48 VDC	**RXM2AB1ED**	**RXM2AB2ED**	**RXM3AB1ED**	–	**RXM4AB1ED**	**RXM4AB2ED**
	110 VDC	**RXM2AB1FD**	**RXM2AB2FD**	**RXM3AB1FD**	**RXM3AB2FD**	**RXM4AB1FD**	**RXM4AB2FD**
	24 VAC	**RXM2AB1B7**	**RXM2AB2B7**	**RXM3AB1B7**	**RXM3AB2B7**	**RXM4AB1B7**	**RXM4AB2B7**
	48 VAC	**RXM2AB1E7**	**RXM2AB2E7**	**RXM3AB1E7**	**RXM3AB2E7**	**RXM4AB1E7**	**RXM4AB2E7**
	120 VAC	**RXM2AB1F7**	**RXM2AB2F7**	**RXM3AB1F7**	**RXM3AB2F7**	**RXM4AB1F7**	**RXM4AB2F7**
	230 VAC	**RXM2AB1P7**	**RXM2AB2P7**	**RXM3AB1P7**	**RXM3AB2P7**	**RXM4AB1P7**	**RXM4AB2P7**
	220 VDC	–		–		**RXM4AB1MD**	–
	240 VDC	–		–		**RXM4AB1U7**	–
Screw clamp socket *(1)*		**RXZE2M114**		–		**RXZE2M114**	
Screw connector socket *(2)*		**RXZE2M114M**		–		**RXZE2M114M**	
Screw connector socket *(2)*		**RXZE2S108M**		**RXZE2S111M**		**RXZE2S114M**	
Push-in socket		**RXZE14P**		**RXZE14P**		**RXZE14P**	
Pre-mounted product	24 VDC	–	**RXM2AB2BDPVM** *(3)*	–		**RXM4AB1BDPVM** *(3)*	**RXM4AB2BDPVM** *(3)*
	24 VAC	–	**RXM2AB2B7PVM** *(3)*	–		**RXM4AB1B7PVM** *(3)*	**RXM4AB2B7PVM** *(3)*
	230 VAC	–	**RXM2AB2P7PVM** *(3)*	–		**RXM4AB1P7PVM** *(3)*	**RXM4AB2P7PVM** *(3)*
	24 VDC	–	**RXM2AB2BDPVS** *(4)*	–		**RXM4AB1BDPVS** *(4)*	**RXM4AB2BDPVS** *(4)*
	24 VAC	–	**RXM2AB2B7PVS** *(4)*	–		**RXM4AB1B7PVS** *(4)*	**RXM4AB2B7PVS** *(4)*
	230 VAC	–	**RXM2AB2P7PVS** *(4)*	–		**RXM4AB1P7PVS** *(4)*	**RXM4AB2P7PVS** *(4)*



RPM power relays (15 A)

Type		RPM relays with test button							
Contact		1 CO		2 CO		3 CO		4 CO	
Current		15 A							
Connection		Flat pins (Faston type)							
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	12 VDC	**RPM11JD**	**RPM12JD**	**RPM21JD**	**RPM22JD**	**RPM31JD**	**RPM32JD**	**RPM41JD**	**RPM42JD**
	24 VDC	**RPM11BD**	**RPM12BD**	**RPM21BD**	**RPM22BD**	**RPM31BD**	**RPM32BD**	**RPM41BD**	**RPM42BD**
	48 VDC	**RPM11ED**	**RPM12ED**	**RPM21ED**	**RPM22ED**	**RPM31ED**	**RPM32ED**	**RPM41ED**	**RPM42ED**
	110 VDC	**RPM11FD**	–	**RPM21FD**	**RPM22FD**	**RPM31FD**	–	**RPM41FD**	**RPM42FD**
	24 VAC	**RPM11B7**	**RPM12B7**	**RPM21B7**	**RPM22B7**	**RPM31B7**	**RPM32B7**	**RPM41B7**	**RPM42B7**
	48 VAC	**RPM11E7**	**RPM12E7**	**RPM21E7**	**RPM22E7**	**RPM31E7**	**RPM32E7**	**RPM41E7**	**RPM42E7**
	120 VAC	**RPM11F7**	**RPM12F7**	**RPM21F7**	**RPM22F7**	**RPM31F7**	**RPM32F7**	**RPM41F7**	**RPM42F7**
	230 VAC	**RPM11P7**	**RPM12P7**	**RPM21P7**	**RPM22P7**	**RPM31P7**	**RPM32P7**	**RPM41P7**	**RPM42P7**
Screw connector socket		**RPZF1**		**RPZF2**		**RPZF3**		**RPZF4**	

(1) With mixed contacts.
(2) With separate contacts.
(3) RXM pre-mounted version includes: Relay + Screw connector socket (mixed) + Clamp + Label, sold in lots of 30 units.
(4) RXM pre-mounted version includes: Relay + Screw connector socket (seperate) + Clamp + Label, sold in lots of 30 units.

Harmony Relay SSL and SSP solid state relays





SSL1 Slim Interface Solid State Relays, 1NO contact (DC switching)					
Load current		0.1 A		3.5 A	
Load voltage		1…48 VDC		1…24 VDC	
Type		Relays and sockets for customer assembly *(1)*	Pre-assembled with relay mounted on socket *(2)*	Relays and sockets for customer assembly *(1)*	Pre-assembled with relay mounted on socket *(2)*
Control Voltage	3…12 VDC	**SSL1D101JD**	**SSL1D101JDPV** **SSL1D101JDPR**	**SSL1D03JD**	**SSL1D03JDPV** **SSL1D03JDPR**
	15…30 VDC	**SSL1D101BD**	**SSL1D101BDPV** **SSL1D101BDPR**	**SSL1D03BD**	**SSL1D03BDPV** **SSL1D03BDPR**

SSL1 Slim Interface Solid State Relays, 1NO contact (Random switching, Zero voltage switching)					
Load current		2 A			
Load voltage		24…280 VAC			
Switching		Random switching		Zero voltage switching	
Type		Relays and sockets for customer assembly *(1)*	Pre-assembled with relay mounted on socket *(2)*	Relays and sockets for customer assembly *(1)*	Pre-assembled with relay mounted on socket *(2)*
Control Voltage	3…12 VDC	**SSL1A12JDR**	**SSL1A12JDRPV** **SSL1A12JDRPR**	**SSL1A12JD**	**SSL1A12JDPV** **SSL1A12JDPR**
	15…30 VDC	**SSL1A12BDR**	**SSL1A12BDRPV** **SSL1A12BDRPR**	**SSL1A12BD**	**SSL1A12BDPV** **SSL1A12BDPR**

SSP1 1-phase Panel Mount Solid State Relays, 1NO contact (DC switching)		
Control voltage		3.5…32 VDC
Load voltage		1…150 VDC
Load current	12 A	**SSP1D412BDT**
	25 A	**SSP1D425BDT**
	40 A	**SSP1D440BDT**

SSP1 1-phase Panel Mount Solid State Relays, 1NO contact (Zero voltage switching)					
Control voltage		3…32 VDC	4…32 VDC	90…280 VAC	
Load voltage		24…300 VAC	48…660 VAC	24…300 VAC	48…660 VAC
Load current	10 A	**SSP1A110BDT**	–	**SSP1A110M7T**	–
	25 A	**SSP1A125BDT** *(3)*	–	**SSP1A125M7T**	–
	50 A	**SSP1A150BDT** *(3)*	**SSP1A450BDT** *(3)*	**SSP1A150M7T**	**SSP1A450M7T**
	75 A	**SSP1A175BDT**	**SSP1A475BDT** *(3)*	–	**SSP1A475M7T**
	90 A	–	**SSP1A490BDT** *(3)*	–	**SSP1A490M7T**
	125 A	–	**SSP1A4125BDT** *(3)*	–	**SSP1A4125M7T**

SSP3 3-phase Panel Mount Solid State Relays, 3NO contact (Zero voltage switching)					
Load voltage		48…530 VAC			
Control voltage		4…32 VDC	18...36 VAC	90...140 VAC	180…280 VAC
Load current	25 A	**SSP3A225BDT**	–	–	**SSP3A225P7T**
	50 A	**SSP3A250BDT**	**SSP3A250B7T**	**SSP3A250F7T**	**SSP3A250P7T**

SSP3 3-phase Panel Mount Solid State Relays, 3NO contact (Random switching)					
Load voltage		48…530 VAC			
Control voltage		4…32 VDC	18...36 VAC	90...140 VAC	180…280 VAC
Load current	25 A	**SSP3A225BDRT**	–	–	–
	50 A	**SSP3A250BDRT**	**SSP3A250B7RT**	**SSP3A250F7RT**	**SSP3A250P7RT**

(1) To be used together with either screw connector socket (SSLZVA1) or spring terminal socket (SSLZRA1).
(2) SSL●PV (relay with screw connector socket; SSL1●PR (relay with spring terminal socket), sold in lots of 30 units.
(3) Available in smart diagnostic version with built-in visual indicator and alarm output to enable quick response to unexpected results and correct monitoring of SSR operation; identified by adding S at end of reference (etc. SSP1A125BDS).

Harmony Relay SSM and SSD solid state relays



SSM modular DIN rail solid state relays (DC switching)

Contact		1 NO					
Load current		6 A				12 A	
Load voltage		1…60 VDC		1…100 VDC		1…60 VDC	1…100 VDC
		12 mm				18 mm	
Control Voltage	4...32 VDC	**SSM1D26BD**		**SSM1D36BD**		**SSM1D212BD**	**SSM1D312BD**

SSM modular DIN rail solid state relays (Random switching)

Contact		1 NO				2 NO	
Load current		6 A		12 A		6 A	
Load voltage		24…280 VAC	48…600 VAC	24…280 VAC	48…600 VAC	24…280 VAC	48…600 VAC
		12 mm		18 mm			
Control Voltage	4...32 VDC	**SSM1A16BDR**	**SSM1A36BDR**	**SSM1A112BDR**	**SSM1A312BDR**	**SSM2A16BDR**	**SSM2A36BDR**
	18...36 VAC	**SSM1A16B7R**	–	**SSM1A112B7R**	–	–	–
	90...140 VAC		–	–	–	–	–
	200...265 VAC		–	–	–	–	–

SSM modular DIN rail solid state relays (Zero voltage switching)

Contact		1 NO			
Load current		6 A		12 A	
Load voltage		24…280 VAC	48…600 VAC	24…280 VAC	48…600 VAC
Control Voltage	4...32 VDC	**SSM1A16BD**	**SSM1A36BD**	**SSM1A112BD**	**SSM1A312BD**
	18…36 VDC	**SSM1A16B7**	–	**SSM1A112B7**	**SSM1A312B7**
	90…140 VAC	**SSM1A16F7**	–	**SSM1A112F7**	–
	200…265 VAC	**SSM1A16P7**	–	**SSM1A112P7**	–



SSD modular DIN rail solid state relays, 1NO contact (Zero voltage switching)

Output voltage		48…600 VAC
		22.5 mm
Load current		20 A
Control voltage		4…32 VDC
Configuration	**Relay**	**SSD1A320BDC1**
	Contactor - Screw	**SSD1A320BDC2**
	Contactor - Spring	**SSD1A320BDC3**

SSD modular DIN rail solid state relays, 1NO contact (Random switching)

Output voltage		48…600 VAC							
		22.5 mm				45 mm			
Load current		20 A		35 A		45 A		60 A	
Control voltage		4…32 VDC	90…280 VAC/DC	4…32 VDC	90…280 VAC/DC	4…32 VDC	90…280 VAC/DC	4…32 VDC	90…280 VAC/DC
Configuration	**Relay**	**SSD1A320BDRC1**	**SSD1A320M7RC1**	**SSD1A335BDRC1**	**SSD1A335M7RC1**	–	–	**SSD1A360BDRC1**	–
	Contactor - Screw	**SSD1A320BDRC2**	**SSD1A320M7RC2**	**SSD1A335BDRC2**	**SSD1A335M7RC2**	**SSD1A345BDRC2**	**SSD1A345M7RC2**	**SSD1A360BDRC2**	**SSD1A360M7RC2**
	Contactor - Spring	**SSD1A320BDRC3**	**SSD1A320M7RC3**	**SSD1A335BDRC3**	**SSD1A335M7RC3**	**SSD1A345BDRC3**	**SSD1A345M7RC3**	**SSD1A360BDRC3**	**SSD1A360M7RC3**

SSD modular DIN rail solid state relays, 1NO contact (DC switching)

Output voltage	1…200 VDC	
Control voltage	4…32 VDC	
Frontal width	22.5 mm	
Load current	20 A	30 A
Relay Configuration	**SSD1D520BDC1**	**SSD1D530BDC1**

Harmony Control Relays



3-phase Monitoring Relay, 1 output

Power Supply		Self-powered *(1)*					
Monitoring functions	Phase Loss	Yes	-	Yes	Yes	Yes	Yes
	Phase loss with voltage regeneration	-	Yes	-	-	-	-
	Phase Sequence	Yes	Yes	Yes	Yes	Yes	Yes
	Asymmetry	-	-	Yes	-	Yes	-
	Overvoltage	-	-	-	-	Yes	-
	Undervoltage	-	-	-	Yes	Yes	-
	Overcurrent and Undercurrent	-	-	-	-	-	Yes
Measuring Range		208…480 VAC					
Product References		**RM17TG00**	**RM17TT00**	**RM17TA00**	**RM17TU00**	**RM17TE00**	**RM35BA10**

3-phase Monitoring Relay, 2 outputs

Power Supply		Self-powered *(1)*						24..240 VAC/DC	
Monitoring functions	Phase Loss	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Phase Sequence	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes
	Asymmetry	-	Yes	-	-	Yes	-	-	-
	Overvoltage	-	-	-	Yes	Yes	Yes	-	-
	Undervoltage	-	-	Yes	Yes	Yes	Yes	-	-
	Overfrequency	-	-	-	-	Yes	-	-	-
	Underfrequency	-	-	-	-	Yes	-	-	-
	Absence of neutral	-	-	-	-	-	Yes	-	-
	Motor temperature via PTC probe	-	-	-	-	-	-	Yes	-
	Elevator Machine room temperature (Over temperature and under temperature)	-	-	-	-	-	-	-	Yes
Measuring Range		208…480 VAC	200…240 VAC 380…480 VAC	200…240 VAC 380…480 VAC	200…240 VAC 380…480 VAC	208…480 VAC	120…277 VAC	208…480 VAC	208…480 VAC
Product References		**RM17TG20** **RM22TG20**	**RM22TA31** **RM22TA33**	**RM22TU21** **RM22TU23**	**RM22TR31** **RM22TR33**	**RMNF22TB30** *(3)*	**RM35UB3N30**	**RM35TM50MW** **RM35TM250MW**	**RM35ATW5MW**

1-phase Voltage Control Relay

Power Supply		Self-powered *(1)*			24..240 VAC/DC			380…415 V AC	110…240 VAC/DC
Monitoring functions	Undervoltage	Yes	-	-	-	-	Yes	Yes	-
	Overvoltage	-	-	-	-	Yes	Yes	Yes	-
	Overvoltage or Undervoltage	-	Yes	-	Yes	-	-	-	-
	Overvoltage and Undervoltage in window mode *(4)*	-	-	Yes	-	-	Yes	Yes	Yes
Relay output		1			2				
Measuring Range		Fixed at 165 VAC	9…15 VDC 65…260 VAC/DC 20…80 VAC/DC	65…260 VAC/DC 20…80 VAC/DC	0.05…5 VAC/DC 1…100 VAC/DC 15…600 VAC/DC	0.05…5 VAC/DC 1…100 VAC/DC 15…500 VAC/DC		15…500 VAC/DC	80…300 VAC/DC
Product References		**RM17UAS15315M** **(adjustable time delay of 3 to 15 minutes)**	**RM17UAS14** **RM17UAS15** **RM17UAS16**	**RM17UBE15** **RM17UBE16**	**RM35UA11MW** **RM35UA12MW** **RM35UA13MW**	**RM22UA21MR** **RM22UA22MR** **RM22UA23MR**	**RM22UA31MR** **RM22UA32MR** **RM22UA33MR**	**RM22UA33MT**	**RM22UB34**

1-phase Current Control Relay

Power Supply		24..240 VAC/DC				380…415 VAC
Monitoring functions	Undercurrent	-	-	-	-	-
	Overcurrent	Yes	Yes	-	-	-
	Overcurrent or Undercurrent	-	-	Yes	Yes	Yes
	Overcurrent and Undercurrent in window mode *(2)*	-	-	-	Yes	Yes
Relay output		1	2			
Measuring Range		2…20 A	4 mA...1 A	2…500 mA 0.15…15 A	4 mA...1 A 0.15…15 A	0.15…15 A
Product References		**RM17JC00MW**	**RM22JA21MR**	**RM35JA31MW** **RM35JA32MW**	**RM22JA31MR** **RM35JA32MR**	**RM35JA32MT**

Level Control Relay

Type	Resistive Probes			Discrete Sensor
Power Supply	380…415 VAC	24..240 VAC/DC		24..240 VAC/DC
Relay output	1		2	1
Measuring Range	5…100 kΩ		0.25…5 kΩ 5…100 kΩ 0.05…1 kΩ	-
Product References	**RM22LG11MT**	**RM22LG11MR**	**RM22LA32MR** **RM35LM33MW**	**RM35LV14MW**

Other Control Relays for your selection

Application	Frequency control	Speed control	Temperature control for elevator machine rooms
Product Reference	**RM35HZ21FM**	**RM35S0MW**	**RM35ATL0MW** **RM35ATR5MW**

(1) No need for auxiliary voltage to power the control relay. Energy is obtained directly from the line that the control relay is monitoring.
(2) Temperature Control, low threshold: - 1…11°C; high threshold: 34…46°C.
(3) 3-Phase NFC (Near Field Communication) Control Relay.
(4) Relay checks that the controlled value stays between minimum and a maximum threshold.

Harmony Time electronic timing relays



1 Timing relays with screw terminals for DIN rail mounting, 1 contact

Type	1 function	2 functions	2 functions	1 function	Multifunction	Multifunction
Functions *(1)*	A	A, At	L, Li	C	A, At, B, C, H, Ht, D, Di, Ac, Bw	Ad, Ah, N, O, P, Pt, T, Tt, W
Timing range	0.1 s...100 h					
Type of output/current	1 solid state 0.7 A	1 relay output 1 CO/8 A				
Power supply	24...240 VAC/VDC	24 VDC, 24...240 VAC			12...240 VAC/VDC	24 VDC, 24...240 VAC
Frontal width	17.5 mm					
Complete product *(2)*	**RE17LAMW**	**RE17RAMU**	**RE17RLMU**	**RE17RCMU**	**RE17RMMW**	**RE17RMXMU**

2 Timing relays with screw terminals for DIN rail mounting, 2 contacts

Type	3 functions	2 functions	Multifunction
Functions *(1)*	A, At, Aw	C, Ct	A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, Qg, Qgt, Qgw, Qt, Qtt, Qtw, W, Wt
Timing range	0.05 s...300 h		
Type of output/current	2 CO/8 A		
Power supply	24 VDC, 24...240 VAC		
Frontal width	22.5 mm		
Complete product	**RE22R1MAMR**	**RE22R2CMR**	**RE22R2MYMR**

3 Timing relays with NFC technology for DIN rail mounting,screw terminals, 2 contacts

Type	Multifunction
Functions *(1)*	A, Ac, Ad, Ah, Ak, At, B, Bw, C, D, Di, Dt, Dit, H, Ht, L, Li, Lt, Lit, N, O, P, Pt, Qt, Qtt, Tl, Tt, W
Timing range	0.1 s…999 h
Type of output/current	2 relay outputs, 8A
Power supply	24…240 VDC/VAC
Frontal width	22.5 mm
Complete product	**RENF22R2MMW**

4 Miniature plug-in timing relays for DIN rail mounting

Function *(1)*	A (Delay on energization)					
Timing range	0.1 s…100 h					
Type of output/current	2 CO/5 A			4 CO/5 A		
Power supply	24 VDC	120 VAC	230 VAC	24 VDC	120 VAC	230 VAC
Dimension	21 x 27 mm miniature plug-in					
Complete product	**REXL2TMBD**	**REXL2TMF7**	**REXL2TMP7**	**REXL4TMBD**	**REXL4TMF7**	**REXL4TMP7**
Socket	**RXZE2S108M / RXZE14P**			**RXZE2S114M / RXZE14P**		

5 48 x 48 mm analog plug-in (8-pins) timing relays for DIN rail or front panel mounting

Type	1 function	4 functions	2 functions	4 functions
Functions *(1)*	A	A1, A2, H1, H2	L, Li	A, B, C, Di
Timing range	0.02 s...300 h			
Type of output/current	1 CO/5 A	1 + 1 (instant.)/5 A	2 CO/5 A	
Power supply	24…240 VAC/VDC			
Dimension	48 x 48 mm analog panel-mounted or plug-in			
Complete product	**RE48ATM12MW**	**RE48AMH13MW**	**RE48ACV12MW**	**RE48AML12MW**
Screw connector socket *(4)*	**RUZC2M**		**RUZC3M**	

A: power on-delay relay
Ac: on-delay & off-delay relay *(5)*
Act: on-delay & off-delay relay *(5)* *(6)*
Ad: pulse delayed relay *(5)*
Ah: pulse delayed relay (single cycle) *(5)*
Ak: asymmetrical on-delay & off-delay relay *(5)*
Akt: asymmetrical on-delay & off-delay relay *(5)* *(6)*
At: power on-delay relay *(6)*
Aw: power on-delay relay with retrigger/restart control signal
A1: power on-delay relay (R1 instantaneous, R2 timed)
A2: power on-delay relay (both R1/R2 timed)
B: interval relay *(5)*
Bw: double interval relay *(5)*
C: off-delay relay *(5)*
Ct: off-delay relay *(6)*
D: symmetrical flashing relay (starting pulse-off)
Di: symmetrical flashing relay (starting pulse-on)
Dit: symmetrical flashing relay (starting pulse-on) *(6)*
Diw: symmetrical flashing relay (starting pulse-on) with retrigger/restart control signal
Dt: symmetrical flashing relay (starting pulse-off) *(6)*
Dw: symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal
H: interval relay
He: pulse on de-energization relay
Ht: interval relay *(6)*
Hw: interval relay with retrigger/restart control signal
H1: interval relay (R1 instantaneous, R2 timed)
H2: interval relay (both R1/R2 timed)
K: delay on de-energization relay (without auxiliary supply)
L: asymmetrical flashing relay (starting pulse-off)
Li: symmetrical flashing relay (starting pulse-on)
Lt: symmetrical flashing relay *(6)*
N: safeguard relay
O: delayed safeguard relay
P: pulse delayed relay with fixed pulse length
Pt: pulse delayed relay with fixed pulse length *(6)*
Qc: star-delta timing relay, 1CO output
Qe: star-delta timing relay, 1 NC + 1 NO output & split common
Qg: star-delta timing relay, 2 CO outputs & same common
Qgt: star-delta timing relay, 2 CO outputs & same common *(6)*
Qt: star-delta timing relay, 2 CO outputs & split common
Qtt: star-delta timing relay, 2 CO outputs & split common *(6)*
Tt: retriggerable bistable relay with control signal on
W: interval relay with control signal off
Wt: interval relay with control signal off *(6)*

(1) For more details about functions, please refer to the technical descriptions and schemes on our website www.se.com.
(2) For spring terminal version, order RE17●●●S, like RE17RMMWS.
(3) With separate contacts.
(4) With mixed contacts.
(5) With control signal.
(6) With pause-summation control signal.



06. Modicon PLC, power supply and transformer, Uninterruptible Power Supply

Modicon PLC: M221





Modicon M221 logic controllers

Applications		Control of simple machines								
Supply voltage		100-240 V ∿	24 V ⎓	24 V ⎓	100-240 V ∿	24 V ⎓	24 V ⎓	100-240 V ∿	24 V ⎓	24 V ⎓
Inputs/ outputs	Logic inputs/ outputs	16 logic I/O			24 logic I/O			40 logic I/O		
	No. and type of inputs	9 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs			14 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs			24 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs		
	No. and type of outputs	7 relay outputs	7 source transistor outputs, inc. 2 high-speed outputs	7 sink transistor outputs, inc. 2 high-speed outputs	10 relay outputs	10 source transistor outputs, inc. 2 high-speed outputs	10 source transistor outputs, inc. 2 high-speed outputs	16 relay outputs	16 source transistor outputs, inc. 2 high-speed outputs	16 sink transistor outputs, inc. 4 high-speed outputs
	Connection of logic I/O	On removable screw terminal block								
	Analog inputs	2 x 0…10 V analog inputs								
	Connection of analog inputs	On dedicated removable connector								
Logic controller	No Ethernet port	**TM221C16R**	**TM221C16T**	**TM221C16U**	**TM221C24R**	**TM221C24T**	**TM221C24U**	**TM221C40R**	**TM221C40T**	**TM221C40U**
	With embedded Ethernet port	**TM221CE16R**	**TM221CE16T**	**TM221CE16U**	**TM221CE24R**	**TM221CE24T**	**TM221CE24U**	**TM221CE40R**	**TM221CE40T**	**TM221CE40U**





Modicon M221 Book logic controllers

Applications		Control of simple machines		
Supply voltage		24 V ⎓		
Inputs/ outputs	Logic inputs/ outputs	16 logic I/O	16 logic I/O	32 logic I/O
	No. and type of inputs	8 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs	8 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs	16 sink/source 24 V ⎓ inputs, inc. 4 high-speed inputs
	No. and type of outputs	8 relay outputs	8 source transistor outputs, inc. 2 high-speed outputs	16 source transistor outputs, inc. 2 high-speed outputs
	Connection of logic I/O	On removable screw terminal block or spring terminal block *(1)*		On HE 10 connector (with the Telefast Modicon ABE7 pre-wired system: connection cables and sub-bases)
	Analog inputs	2 x 0…10 V analog inputs		
	Connection of analog inputs	On dedicated removable connector		
Logic controller	No Ethernet port	**TM221M16R**	**TM221M16T**	**TM221M32TK**
		TM221M16RG *(1)*	**TM221M16TG** *(1)*	–
	With embedded Ethernet port	**TM221ME16R**	**TM221ME16T**	**TM221ME32TK**
		TM221ME16RG *(1)*	**TM221ME16TG** *(1)*	–

(1) Spring terminal block on references ending in the letter G.

Modicon power supplies and transformers



Regulated switch mode power supplies 10 to 480 W for mounting on rail

Power		10 to 60 W			50 to 480 W		
Input voltage		100…240 V ∿			100…240 V ∿ and 140…340 V ⎓ *(2)*		
Certifications *(1)*		CE marking, CB Scheme, cULus listed, cULus recognized, RCM, EAC, NEC class 2 *(3)*					
Housing		Modular			Book		
Output voltage		5 V ⎓	12 V ⎓	24 V ⎓	12 V ⎓	24 V ⎓	48 V ⎓
Reference (according to output current)	0.4 A	–	–	**ABLM1A24004**	–	–	–
	0.6 A	–	–	**ABLM1A24006**	–	–	–
	1 A	–	**ABLM1A12010**	–	–	–	–
	1.2 A	–	–	**ABLM1A24012**	–	–	–
	2.1 A	–	**ABLM1A12021**	–	–	–	–
	2.1 A	–	–	–	–	**ABLS1A24021**	–
	2.5 A	–	–	**ABLM1A24025**	–	–	**ABLS1A48025**
	3.1 A	–	–	–	–	**ABLS1A24031**	–
	3.6 A	**ABLM1A05036**	–	–	–	–	–
	3.8 A	–	–	–	–	**ABLS1A24038**	–
	4.2 A	–	**ABLM1A12042**	–	–	–	–
	5 A	–	–	–	–	**ABLS1A24050**	–
	6.2 A	–	–	–	**ABLS1A12062**	–	–
	10 A	–	–	–	**ABLS1A12100**	**ABLS1A24100**	–
	20 A	–	–	–	–	**ABLS1A24200**	–



Regulated switch mode power supplies 72 to 960 W for mounting on rail (wide input voltage range)

Input voltage		100…120 V ∿ and 200…500 V ∿ *(4)*	380…500 V ∿
Certifications *(1)*		CE marking, UL (508), CSA (60950-1), CB Scheme, EAC, RCM, KC	
Compatibility	With function modules	Yes with all Modicon power supply function modules *(5)*	
Output voltage		24 V ⎓	
Reference (according to output current)	3 A	**ABL8RPS24030**	–
	5 A	**ABL8RPS24050**	–
	10 A	**ABL8RPS24100**	–
	20 A	**ABL8RPM24200**	**ABL8WPS24200**
	40 A	–	**ABL8WPS24400**

Regulated switch mode power supplies 100 to 240 W for mounting on panel *(6)*

Input voltage		100…240 V ∿	
Certifications *(1)*		CE marking, CB Scheme, cULus listed, cULus recognized, RCM, EAC	
Output voltage		12 V ⎓	24 V ⎓
Reference (according to output current)	4.5 A	–	**ABLP1A24045**
	6.2 A	–	**ABLP1A24062**
	8.5 A	**ABLP1A12085**	–
	10 A	–	**ABLP1A24100**

(1) Please consult detail on certifications for each reference in the individual datasheet available on our website www.se.com.
(2) Depending on product reference, consult our product datasheet on www.se.com.
(3) NEC class 2 for book only for ABLM●●, ABLS1A24021, ABLS1A24031, and ABLS1A24038.
(4) Except ABL8RPM24200: 100…240 V and 200…240 V ∿.
(5) Compatible modules: buffer module, batteries and battery control modules, redundancy module, and discriminating downstream protection module.
(6) Mounting on DIN rail possible with additional accessories; ABLP1A01 for all references except ABLP1A24100, ABLP1A02 for ABLP1A24100.
For more information, see the Modicon power supply catalog on our website www.se.com.

Modicon power supplies and transformers





Function modules for continuity of service (only compatible with ABL8RP/ABL8WP power supplies)					
Type of function		Battery modules *(3) (4)*	Solutions to microbreaks and power outages *(4)*	Redundancy module	
Input voltage		24 V ⎓			
Certifications *(2)*		CE marking, UL (508), CSA (60950-1), EAC, RCM			
Compatibility	With power supplies	Yes, but only with ABL8RP/ABL8WP Modicon power supply			
Output voltage		24 V ⎓			
Reference (according to output current)	3 Ah	**ABL8BPK24A03**	–	–	
	7 Ah	**ABL8BPK24A07**	–	–	
	12 Ah	**ABL8BPK24A12**	–	–	
	20 A	–	**ABL8BBU24200** *(1)*	–	
	40 A	–	**ABL8BBU24400** *(1)*	**ABL8RED24400**	

(1) Similar offer also available, see Schneider Electric DC UPS (see page below).
(2) Please consult detail on certifications for each reference in the individual datasheet available on our website www.se.com.
(3) Supplied with 20 or 30 A fuse, depending on the model.
(4) Holding time depending on the load. Please refer to the table of compatibility of battery module with holding time in the Modicon power supply catalog on our website www.se.com.

Uninterruptible Power Supply (UPS)







1 Easy UPS 24V DC DIN Rail Industrial		
Power Capacity	240 W	480 W
Input/Output	Hardwire/24 V ⎓	
Input voltage range	21.6 to 28.6 V ⎓	
Mounting type	DIN rail mount	
Runtime	10 mins @ 10 A	5 mins @ 20 A
Communication	I/O Relay, LEDs	
Number of batteries in parallel	4	
Safety Certifications	UL,TUV, CE and UKCA listed	

2 Easy UPS		
Series	1 Ph BVS Series	1 Ph SMV Series
Nominal Input Voltage | Input Frequency	230 V 50/60 Hz (Auto sensing)	
Nominal Output Voltage | Output Frequency	230 V ∿ 50 Hz or 60 Hz +/- 1 Hz	
Power Capacity	300 W/500 VA to 600 W/1,000 VA	525 W/750 VA to 2,100 W/3,000 VA
Topology	Line interactive	
Battery type	Maintenance-free sealed lead-acid battery	

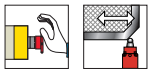
3 Easy UPS 1 Ph On-line					
Model	SRV 1,000 VA	SRV 2,000 VA	SRV 3,000 VA	SRV 6,000 VA	SRV 10,000 VA
Nominal Input Voltage | Input Frequency	230 V ∿ 50/60 Hz				
Output Voltage | Frequency	220/230/240 V ∿ | 50/60 Hz +/-0.5%			220/230/240 V ∿ | 50/60 Hz +/-0.1%	
Output Power Capacity (Watts/VA)	800 W/1,000 VA	1,600 W/2,000 VA	2,400 W/3,000 VA	6,000 W/6,000 VA	10,000 W/10,000 VA
Topology	Online				
Mounting type	Rack & Tower				
Battery type	Maintenance-free sealed lead-acid battery				

Note: For more information depending on product reference, consult our product datasheet on www.se.com.



07. Harmony safety modules and Modicon safety controllers

Harmony safety modules

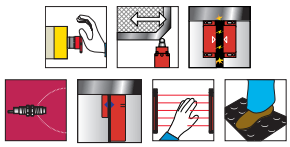






Function: Emergency stop, guard switch

Harmony safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 0			
Terminal type		Captive screw clamp terminal	
Connections		Integrated in module	Removable from module
Number of instantaneous safety output contacts		3 NO	3 NO
Number of additional output contacts		1 solid state	1 solid state
Reference	24 VAC/VDC	**XPSBAC14AP**	**XPSBAC14AC**
	48...240 VAC/DC	**XPSBAC34AP**	**XPSBAC34AC**





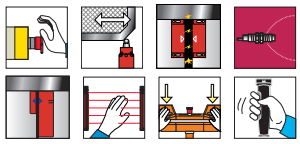






Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety mats/edges, safety light curtain or RFID switch monitoring

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0 (for XPSUAK) and STOP category 1 (for XPSUAT)						
Terminal type			Captive screw clamp terminal		Spring clamp terminal	
Connections			Removable from module			
Number of instantaneous safety circuits			3 NO	2 NO + 1 NC	3 NO	2 NO + 1 NC
Number of delayed or immediate contacts			3 NO + 1 NC	–	3 NO + 1 NC	–
Number of additional outputs			1 solid state + 1 pulsed diagnostic output	1 pulsed diagnostic output	1 solid state + 1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	–	–	**XPSUAK12AP**	–	**XPSUAK12AC**
		0…15 min	**XPSUAT13A3AP**	–	**XPSUAT13A3AC**	–
	48...240 VAC/VDC	–	–	**XPSUAK32AP**	–	**XPSUAK32AC**
		0…15 min	**XPSUAT33A3AP**	–	**XPSUAT33A3AC**	–





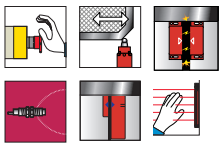


Function: Emergency stop, protective guard, enabling switch or two-hand control monitoring, coded magnetic switch, SIL2 proximity switches, safety light curtain or RFID switch monitoring *(1) (2)*

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Type conforming to standard EN5074		IIIA or IIIC	IIIA or IIIC
Number of instantaneous safety circuits		2 NO	2 NO
Maximum number of two-hand control or enabling switch monitoring (Cat. 4, PL e, SIL3)		1	1
Maximum number of safety light curtain or RFID switch monitoring (Cat. 4, PL e, SIL3)		2	2
Maximum number of safety coded magnetic switches or other safety devices (Cat. 4, PL e, SIL3)		2	2
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	**XPSUS12AP**	**XPSUS12AC**
	48...240 VAC/VDC	**XPSUS32AP**	**XPSUS32AC**

(1) Enabling switch and two-hand control with automatic start only.
(2) Can also be used with XY2SB71 or XY2SB714 two-hand control stations.

Harmony safety modules

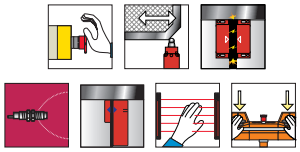






Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety light curtain or RFID switch monitoring

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of instantaneous safety circuits		3 NO	3 NO
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	**XPSUAF13AP**	**XPSUAF13AC**
	48...240 VAC/VDC	**XPSUAF33AP**	**XPSUAF33AC**



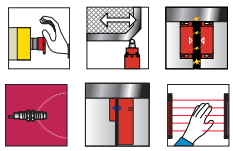




Function: Emergency stop, switch monitoring, or two-hand control monitoring *(1)*

Harmony safety modules conforming to Cat. 1, PL c, SILCL1, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Type conforming to standard EN5074		IIIA	IIIA
Number of instantaneous safety circuits		1 NO	1 NO
Number of additional outputs		1 NC + 1 pulsed diagnostic output	1 NC + 1 pulsed diagnostic output
Reference	24 VAC/VDC	**XPSUAB11CP**	**XPSUAB11CC**
	48...240 VAC/VDC	**XPSUAB31CP**	**XPSUAB31CC**

(1) Two-hand control with automatic start only.



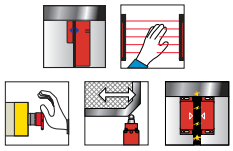




Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety light curtain or RFID switch monitoring

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of instantaneous safety circuits		3 NO + 1 NC	3 NO + 1 NC
Maximum number of safety functions for Cat. 4, PL e, SIL3		6	6
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	**XPSUDN13AP**	**XPSUDN13AC**
	48...240 VAC/VDC	**XPSUDN33AP**	**XPSUDN33AC**

Harmony safety modules

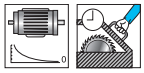






Function: Emergency stop, switch monitoring and protective guard applications

Harmony safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 1				
Terminal type			Captive screw clamp terminal	Spring clamp terminal
Connections			Removable from module	
Number of instantaneous safety output contacts			2 NO	
Number of delayed or immediate output contacts			1 NO	
Number of additional outputs			1 solid-state	
Reference	24 VAC/DC	0…15 min	**XPSBAT12A1AP**	**XPSBAT12A1AC**







Function: Zero speed monitoring with delayed access to dangerous area

Harmony safety modules conforming to Cat. 3, PL e, SIL3, and STOP category 1			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of safety delayed output contact		1 NO *(1)*	
Number of additional outputs		1 Solid-state + 1 pulsed diagnostic output	
Voltage threshold selection		50…500 mV	
Time delay selection		0.5…60 s	
Reference	24 VAC/DC	**XPSUVN11AP**	**XPSUVN11AC**
	48…240 VAC/DC	**XPSUVN31AP**	**XPSUVN31AC**







Function: Increasing the number of safety contacts *(2)*

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of instantaneous safety circuits		4 NO	4 NO
Number of additional outputs		2 NC	2 NC
Reference	24 VAC/VDC	**XPSUEP14AP**	**XPSUEP14AC**
	48...240 VAC/VDC	**XPSUEP34AP**	**XPSUEP34AC**

(1) To increase the number of safety delayed output contacts, please consider to add the appropriate XPSUEP range extension outputs.
(2) This module can be used with just XPSU safety modules and is mounted via a side expansion connection included with the product, expect for XPSUAB.

Modicon MCM modular safety controllers



Safety controllers CPU

Safety controllers conforming to Cat. 4, PL e, SIL3						
Description		Safety controller CPU	CPU + backplane connector	Safety controller CPU	CPU + backplane connector	
Connections		Removable from controller				
Number and type of inputs		8 digital inputs + 2 for Start/Restart interlock		8 digital inputs + 4 for Start/Restart interlock		
Number and type of outputs		2 OSSD pairs + 4 test outputs + 2 status outputs		4 OSSD + 4 test outputs + 4 status outputs		
Terminal type		Screw *(1)*				
Reference	24 VDC	**XPSMCMCP0802**	**XPSMCMCP0802BC**	**XPSMCMC10804**	**XPSMCMC10804B**	



Safe expansion modules

Safe expansion I/O modules							
Description		Safe mixed I/O expansion modules		Safe input expansion modules			
Number and type of inputs		8 digital inputs + 2 for Start/Restart interlock	8 digital inputs + 4 for Start/Restart interlock	8 digital inputs	16 digital inputs	12 digital inputs	4-channel analogic inputs 0...20 mA/0…10 V
Number and type of outputs		2 OSSD pairs + 4 test outputs + 2 status outputs	4 single OSSD + 4 test outputs + 4 status outputs	4 test outputs	4 test outputs	8 test outputs for 4-wire safety mats	–
Resolution		–					16 bits
Terminal type		Screw *(1)*					
Reference	24 VDC	**XPSMCMMX0802**	**XPSMCMMX0804** *(2)*	**XPSMCMDI0800**	**XPSMCMDI1600**	**XPSMCMDI1200MT**	**XPSMCMAI0400** *(2)*



Safe output expansion modules							
Description		Safe digital expansion modules		Safe relay output modules (without expansion bus connection, wired externally)		Safe relay output modules (with expansion bus connection)	
Number and type of inputs		2 for Start/Restart interlock	4 for Start/Restart interlock	1 for Start/Restart interlock	2 for Start/Restart interlock	4 for Start/Restart interlock	
Number and type of outputs		2 OSSD pairs + 2 status outputs	4 OSSD pairs + 4 status outputs	2 relays for 1 output (2 NO +1 NC)	4 relays for 2 independent outputs (4 NO + 2 NC)	4 relays	4 relays with 8 status outputs
Terminal type		Screw *(1)*					
Reference	24 VDC	**XPSMCMDO0002**	**XPSMCMDO0004**	**XPSMCMER0002**	**XPSMCMER0004**	**XPSMCMRO0004**	**XPSMCMRO0004D**



Safe speed monitoring modules							
Description		Safe speed monitoring modules					
Number and type of inputs		- 1 Sin/Cos encoder and 2 proximity sensor inputs	- 2 Sin/Cos encoders and 2 proximity sensor inputs	- 1 TTL encoder and 2 proximity sensor inputs	- 2 TTL encoders and 2 proximity sensor inputs	- 1 HTL encoder and 2 proximity sensor inputs	- 2 HTL encoders and 2 proximity sensor inputs
Connector type		- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks	- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks	- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks
Terminal type		Screw *(1)*					
Reference		**XPSMCMEN0100SC**	**XPSMCMEN0200SC** *(3)*	**XPSMCMEN0100TT**	**XPSMCMEN0200TT**	**XPSMCMEN0100HT**	**XPSMCMEN0200HT**

(1) References are given for products with a screw connector. For equivalent references with a spring clamp connector, add a "G" at the end of the reference. For example, XPSMCMMX0802 becomes XPSMCMMX0802G.
(2) Modules can be used with just the CPU XPSMCMC10804 or XPSMCMC10804BC CPU (screw or spring terminal type).
(3) When monitoring of only 2 proximity sensors is required, order an XPSMCMEN0200.

Modicon MCM modular safety controllers




Safe expansion modules *(continued)*

Safe communication expansion modules		
Description	Safe RS 485 bus expansion module for remote extension	
Characteristics	1 connection interface: single channel transmitter/receiver network connection	2 connections interface: dual channel transmitter/receiver network connection
Terminal type	Screw *(1)*	
Reference	**XPSMCMCO0000S1**	**XPSMCMCO0000S2**





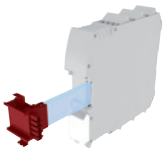



Non-Safe communication modules

Description	Non-Safe communication modules					
Fieldbus/network type	CANopen	Ethernet IP	EtherCAT	Modbus Serial (RTU)	Modbus TCP	Profibus DP
Fieldbus connector type	SUB-D 9-way (female)	1x RJ 45 (in/out)	2x RJ 45 (in/out)	1x RJ 45	1x RJ 45 (in/out)	SUB-D 9-way (male)
Terminal type	Screw *(1)*					
Reference	**XPSMCMCO0000CO**	**XPSMCMCO0000EI** **XPSMCMCO0002EI** *(5)*	**XPSMCMCO0000EC** **XPSMCMCO0002EC** *(5)*	**XPSMCMCO0000MB**	**XPSMCMCO0000EM** **XPSMCMCO0002EM** *(5)*	**XPSMCMCO0000PB**

Software

Description	SoSafe configurable software
Application	To configure a logic connection between the inputs and outputs of the XPSMCMCP0802 and XPSMCMC10804 safety controller CPU *(4)* and the components of the application being developed
PC hardware requirements	RAM: 256 MB, Hard disk ⩾ 300 MB of free space USB connector: 1.1 or 2.0, CD-ROM drive
PC software requirements	Windows XP with Service Pack 3 installed or Windows Vista, 32-bit, or Windows 7 or 8.1, 32-bit and 64-bit Microsoft Framework 3.5 installed on the PC
Reference	**Free software available to download from www.se.com**




Accessories

Description	Backplane expansion connector *(2)*	Memory card
Application	To connect the various expansion modules to the safety controller CPU	To save configuration data for subsequent transfer to a new device without using a PC
Reference	**XPSMCMCN0000SG**	**XPSMCMME0000**






Description	Configuration cable	RS 485 shielded cables			Encoder splitter cables	
Use	For software configuration, between a PC, the safety controller CPU, and the fieldbus communication modules. Equipped with 2x USB connectors: USB A and USB mini B	Between two Safe communication expansion modules			Between SIN/ COS safe speed monitoring module and PacDrive M drives and the associated servo motors	Between SIN/ COS safe speed monitoring modules and Lexium 62 (PacDrive 3), Lexium 32 servo drives and the associated servo motors
Reference	**TCSXCNAMUM3P**	**TSXSCMCN010**	**TSXSCMCN025**	**TSXSCMCN050**	**TSXESPPM001** *(3)*	**TSXESPP3001** *(3)*

(1) References are given for products with a screw terminal. For equivalent references with a spring clamp connector, add a "G" at the end of the reference. For example, XPSMCMCO0000S1 becomes XPSMCMCO0000S1G.
(2) This connector only needs to be ordered for the XPSMCMCP0802 or XPSMCMC10804 safety controller when it is connected to expansion modules.
(3) With 1 m cable. For other cable lengths, replace the last number of the reference with 3 for a 3 m cable or 5 for a 5 m cable.
(4) Consider all CPUs with screw and spring clamp terminals.
(5) The modules XPSMCMCO0000E● have 1-Port RJ45 and the process image mapping of the FW V 2.1.3. The modules XPSMCMCO0002E● have 2-Port RJ45 and the process image mapping of the FW V 2.1.4 and onwards.



08. Universal enclosures

Spacial SDB, SBM, and SBX steel industrial boxes



Spacial SDB steel industrial boxes

Degree of protection: IP55. Mechanical protection: IK07. Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Type of box				Metal junction boxes
				Without knock-outs
Type of cover				Low cover
Reference according to dimensions (H x W x D) in mm	85	85	49	**NSYDBN88**
	105	105	49	**NSYDBN1010**
	155	105	61	**NSYDBN1510**
	206	156	83	**NSYDBN2015**
	256	206	93	**NSYDBN2520**
	307	257	116	**NSYDBN3025**



Spacial SBM steel industrial boxes

Degree of protection: IP66. Mechanical protection IK10. Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Type of box				Steel industrial boxes
				Flat boxes
Reference according to dimensions (H x W x D) in mm	150	150	80	**NSYSBM15158**
	150	150	120	**NSYSBM151512**
	150	200	80	**NSYSBM15208**
	150	200	120	**NSYSBM152012**
	150	300	80	**NSYSBM15308**
	150	300	120	**NSYSBM153012**
	150	400	80	**NSYSBM15408**
	150	400	120	**NSYSBM154012**
	200	200	80	**NSYSBM20208**
	200	200	120	**NSYSBM202012**
	200	300	80	**NSYSBM20308**
	200	300	120	**NSYSBM203012**
	200	400	80	**NSYSBM20408**
	200	400	120	**NSYSBM204012**
	200	500	80	**NSYSBM20508**
	200	500	120	**NSYSBM205012**
	200	600	80	**NSYSBM20608**
	200	600	120	**NSYSBM206012**
	200	800	120	**NSYSBM208012**
	300	300	120	**NSYSBM303012**
	300	400	120	**NSYSBM304012**
	300	500	120	**NSYSBM305012**
	300	600	120	**NSYSBM306012**
	300	800	120	**NSYSBM308012**
	400	400	120	**NSYSBM404012**
	400	500	120	**NSYSBM405012**
	400	600	120	**NSYSBM406012**
	400	800	120	**NSYSBM408012**



Spacial SBX stainless steel industrial boxes

Degree of protection: IP66, stainless steel AISI 304L

Type of box				Stainless steel industrial boxes
Reference according to dimensions (H x W x D) in mm	150	150	80	**NSYSBX15158**
	150	300	80	**NSYSBX15308**
	200	200	80	**NSYSBX20208**
	200	300	80	**NSYSBX20308**
	200	400	120	**NSYSBX204012**
	300	300	120	**NSYSBX303012**

Spacial CRN and Spacial S3D steel wall-mounting enclosures





Spacial CRN and Spacial S3D *(1)* multi-purpose steel wall-mounting enclosures *(2)*

Degree of protection: IP66. Mechanical protection: IK10P. Finish: painted with textured epoxy-polyester resin in RAL70P35 light gray

Range				Spacial CRN	Spacial S3D
Composition				Plain door with plain mounting plate	
Reference according to dimensions (H x W x D) in mm	250	200	150	**NSYCRN252150P**	–
	300	200	150	–	**NSYS3D3215P**
	300	250	150	**NSYCRN325150P**	**NSYS3D32515P**
	300	250	200	**NSYCRN325200P**	–
	300	300	150	**NSYCRN33150P**	**NSYS3D3315P**
	300	300	200	**NSYCRN33200P**	**NSYS3D3320P**
	300	400	150	–	**NSYS3D3415P**
	300	400	200	–	**NSYS3D3420P**
	400	300	150	**NSYCRN43150P**	**NSYS3D4315P**
	400	300	200	**NSYCRN43200P**	**NSYS3D4320P**
	400	400	200	**NSYCRN44200P**	**NSYS3D4420P**
	400	600	200	–	**NSYS3D4620P**
	400	600	250	**NSYCRN46250P**	**NSYS3D4625P**
	400	600	300	**NSYCRN46300P**	–
	500	300	200	–	**NSYS3D5320P**
	500	400	150	**NSYCRN54150P**	–
	500	400	200	**NSYCRN54200P**	**NSYS3D5420P**
	500	400	250	**NSYCRN54250P**	**NSYS3D5425P**
	500	500	200	–	**NSYS3D5520P**
	500	500	250	**NSYCRN55250P**	**NSYS3D5525P**
	600	400	150	**NSYCRN64150P**	–
	600	400	200	**NSYCRN64200P**	**NSYS3D6420P**
	600	400	250	**NSYCRN64250P**	**NSYS3D6425P**
	600	500	150	**NSYCRN65150P**	–
	600	500	200	**NSYCRN65200P**	–
	600	500	250	**NSYCRN65250P**	**NSYS3D6525P**
	600	600	200	–	**NSYS3D6620P**
	600	600	250	**NSYCRN66250P**	**NSYS3D6625P**
	600	600	300	**NSYCRN66300P**	**NSYS3D6630P**
	600	600	400	–	**NSYS3D6640P**
	600	800	300	–	**NSYS3D6830P**
	700	500	200	**NSYCRN75200P**	–
	700	500	250	**NSYCRN75250P**	**NSYS3D7525P**
	800	600	200	**NSYCRN86200P**	**NSYS3D8620P**
	800	600	250	**NSYCRN86250P**	**NSYS3D8625P**
	800	600	300	**NSYCRN86300P**	**NSYS3D8630P**
	800	600	400	–	**NSYS3D8640P**
	800	800	200	**NSYCRN88200P**	–
	800	800	250	–	**NSYS3D8825P**
	800	800	300	**NSYCRN88300P**	**NSYS3D8830P**
	800	1000	300	–	**NSYS3D81030P**
	1000	600	250	**NSYCRN106250P**	**NSYS3D10625P**
	1000	600	300	**NSYCRN106300P**	**NSYS3D10630P**
	1000	600	400	–	**NSYS3D10640P**
	1000	800	250	**NSYCRN108250P**	**NSYS3D10825P**
	1000	800	300	**NSYCRN108300P**	**NSYS3D10830P**
	1000	800	400	–	**NSYS3D10840P**
	1000	1000	300	–	**NSYS3D101030P**

(1) Multi-purpose enclosures are empty enclosures meeting the majority of application requirements. The Spacial S3D offer also comprises enclosures for specific applications, including electromagnetic compatibility (EMC), Voice/Data/Image (VDI), human-machine interface (HMI), modular distribution, outdoor installation, and hazardous environments (ATEX, seismic, or nuclear). In order to check the availability of this range in your country, please contact your local Schneider Electric representative.

(2) For other versions without mounting plate, with glazed door (IK08) or double door (IP55), see the Enclosures catalog on our website www.se.com/enclosures. In order to check the availability of this range in your country, please contact your local Schneider Electric representative.

Thalassa insulating industrial boxes and wall-mounting enclosures




Thalassa TBS - TBP insulating industrial boxes

Degree of protection: IP66. Mechanical protection: IK07 (ABS boxes) and IK08 (PC boxes). Color: RAL7035 light gray

Material				ABS		PC	
Type of cover				Opaque cover	Transparent cover	Opaque cover	Transparent cover
Reference according to dimensions (H x W x D) in mm	74	74	54	**NSYTBS775**	–	**NSYTBP775**	–
	89	89	54	**NSYTBS885**	–	**NSYTBP885**	–
	116	74	62	**NSYTBS1176**	–	**NSYTBP1176**	–
	116	116	62	**NSYTBS11116**	–	**NSYTBP11116**	–
	138	93	72	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
	164	121	87	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
	192	121	87	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
	192	164	87	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
	241	194	87	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
	241	194	107	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
	291	241	88	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
	291	241	128	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
	341	291	128	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**





Thalassa PLS polyester industrial boxes

Degree of protection: IP66. Mechanical protection: IK09. Color: RAL7035 light gray

Material				Polyester		
Type of cover				Transparent PC cover	Opaque PC cover	Opaque polyester cover
Reference according to dimensions (H x W x D) in mm	180	270	180	**NSYPLS1827G**	**NSYPLSC1827G**	**NSYPLSP1827G**
	270	270	180	**NSYPLS2727G**	**NSYPLSC2727G**	**NSYPLSP2727G**
	270	270	230	**NSYPLS2727AG**	**NSYPLSC2727AG**	–
	270	360	180	**NSYPLS2736G**	**NSYPLSC2736G**	**NSYPLSP2736G**
	270	360	230	**NSYPLS2736AG**	**NSYPLSC2736AG**	–
	270	540	180	**NSYPLS2754G**	**NSYPLSC2754G**	**NSYPLSP2754G**
	270	540	230	**NSYPLS2754AG**	**NSYPLSC2754AG**	–
	360	360	180	**NSYPLS3636G**	**NSYPLSC3636G**	**NSYPLSP3636G**
	360	540	180	**NSYPLS3654G**	**NSYPLSC3654G**	**NSYPLSP3654G**
	360	540	230	**NSYPLS3654AG**	**NSYPLSC3654AG**	–
	360	720	230	**NSYPLS3672AG**	**NSYPLSC3672AG**	–
	540	540	180	**NSYPLS5454G**	**NSYPLSC5454G**	**NSYPLSP5454G**
	540	540	230	**NSYPLS5454AG**	**NSYPLSC5454AG**	–
	540	720	230	**NSYPLS5472AG**	**NSYPLSC5472AG**	–







Thalassa PLM polyester wall-mounting enclosures

Degree of protection: IP66. Mechanical protection: IK10 (IK08 for transparent doors). Color: RAL7035 light gray

Material				ABS/PC		Polyester			
Type of door				Plain door	Transparent (IK08)	Plain door	Transparent (IK08)	Plain door with 3-point closure	Transparent (IK08) with 3-point closure
Reference according to dimensions (H x W x D) in mm	310	215	160	**NSYPLM32G**	**NSYPLM32TG**	–	–	–	–
	308	255	160	–	–	**NSYPLM3025G**	**NSYPLM3025TG**	–	–
	430	330	200	–	–	**NSYPLM43G**	**NSYPLM43TG**	**NSYPLM43VG**	**NSYPLM43TVG**
	530	430	200	–	–	**NSYPLM54G**	**NSYPLM54TG**	**NSYPLM54VG**	**NSYPLM54TVG**
	647	436	250	–	–	**NSYPLM64G**	**NSYPLM64TG**	**NSYPLM64VG**	**NSYPLM64TVG**
	747	536	300	–	–	**NSYPLM75G**	**NSYPLM75TG**	**NSYPLM75VG**	**NSYPLM75TVG**
	847	636	300	–	–	**NSYPLM86G**	**NSYPLM86TG**	**NSYPLM86VG**	**NSYPLM86TVG**
	1056	852	350	–	–	**NSYPLM108G**	**NSYPLM108TG**	–	–

Lighting accessories and ClimaSys ventilation systems





LED lamps

Type of lamp	Cost-effective LED lamps				Portable LED lamps
Voltage (V)	120/230 AC			24/48 DC	120/230 AC
Frequency (Hz)	50 - 60			–	50 - 60
Power (W)	5	10		5	10
Power factor	0.8	0.9		1	0.5
Lumens (lm)	500	1100		470	1100
Reference	**NSYLAMT5LD1**	**NSYLAMT5LD2**		**NSYLAMT5LD1VDC**	**NSYLAMPORTLD**



Type of lamp			Multi-fixing LED lamps and power cables					
Voltage (V)			120/230 AC			120 AC	24/48 DC	230 AC
Frequency (Hz)			50 - 60					
Power (W)			10					
Lumens (lm)			640					
Standards			IEC			UL	IEC/UL	
Type of socket			SCHUKO	UTE	BRITISH	USA	Without socket	
Reference	LED lamps		**NSYLAMLDS**	**NSYLAMLDF**	**NSYLAMLDB**	**NSYLAMLDU**	**NSYLAMLD**	**NSYLAMLDVDC**	**NSYLAMLDD** with presence detector
	Power cables	IEC	**NSYLAM3M** *(1)*			–	**NSYLAM3M** *(1)*	**NSYLAM3MDC**	**NSYLAM3M** *(1)*
		UL	–			**NSYLAM3MUL** *(1)*	**NSYLAM3MUL** *(1)*	**NSYLAM3MDCUL**	**NSYLAM3MUL** *(1)*
	Inter-connexion cables	IEC	**NSYLAM1M** *(1)*			–	**NSYLAM1M** *(1)*	**NSYLAM1MDC**	**NSYLAM1M** *(1)*

(1) For orange cables, add N to the end of the reference (example: NSYLAM3MN).









ClimaSys CV ventilation systems

Degree of protection: IP54

Color: RAL 7035 light gray

Fan flow (m³/h) *(2)*	Voltage (V)	Fan reference	Outlet grid reference
38	115	**NSYCVF38M115PF**	**NSYCAG92LPF**
	230	**NSYCVF38M230PF**	**NSYCAG92LPF**
85	115	**NSYCVF85M115PF**	**NSYCAG125LPF**
	230	**NSYCVF85M230PF**	**NSYCAG125LPF**
165	115	**NSYCVF165M115PF**	**NSYCAG223LPF**
	230	**NSYCVF165M230PF**	**NSYCAG223LPF**
300	115	**NSYCVF300M115PF**	**NSYCAG223LPF**
	230	**NSYCVF300M230PF**	**NSYCAG223LPF**
560	115	**NSYCVF560M115PF**	**NSYCAG291LPF**
	230	**NSYCVF560M230PF**	**NSYCAG291LPF**
850	115	**NSYCVF850M115PF**	**NSYCAG291LPF**
	230	**NSYCVF850M230PF**	**NSYCAG291LPF**
	400	**NSYCVF850M400PF**	**NSYCAG291LPF**

ClimaSys CV smart ventilation systems *(1)*

Degree of protection: IP54

Color: RAL 9005 semi-transparent black

Fan flow (m³/h) *(2)*	Voltage (V)	Smart fan reference *(3)*	Smart grid reference *(4)*
34	115	**NSYCVF38M115DG**	**NSYCAG92DG**
34	230	**NSYCVF38M230DG**	**NSYCAG92DG**
74	115	**NSYCVF85M115DG**	**NSYCAG125DG**
68	230	**NSYCVF85M230DG**	**NSYCAG125DG**
142	115	**NSYCVF165M115DG**	**NSYCAG223DG**
151	230	**NSYCVF165M230DG**	**NSYCAG223DG**
259	115	**NSYCVF300M115DG**	**NSYCAG223DG**
259	230	**NSYCVF300M230DG**	**NSYCAG223DG**
502	115	**NSYCVF560M115DG**	**NSYCAG291DG**
522	230	**NSYCVF560M230DG**	**NSYCAG291DG**
638	115	**NSYCVF850M115DG**	**NSYCAG291DG**
783	230	**NSYCVF850M230DG**	**NSYCAG291DG**
731	400	**NSYCVF850M400DG**	**NSYCAG291DG**

(1) Smart fan has to be connected to a controller to relay information and alarms (see table below).
(2) Free flow rate at 50 Hz.
*(3) Supply of **NSYCV●●●DG** fan includes: 1 fan sensor (rpm&Tor measurement), 1 dirt filter sensor.*
*(4) Supply of **NSYCAG●●●DG** grid includes: 1 dirt filter sensor.*





ClimaSys smart ventilation controllers

Voltage (V)	Filterstat controller reference	Thermal hub reference
30 VAC/VDC	**NSYCCOFST30V**	**NSYCCOFSEM8U1**
90-250 VAC	**NSYCCOFST90250V**	**NSYCCOFSEM8U2**
No. of ports	4	8



Filterstat communication cable

Black unshielded cable with 2 connectors at each end (material: PVC)

Length (mm)	Cable references
500	**NSYCCA50MFST**
1000	**NSYCCA100MFST**
1500	**NSYCCA150MFST**
2000	**NSYCCA200MFST**
3000	**NSYCCA300MFST**
4000	**NSYCCA400MFST**
5000	**NSYCCA500MFST**

ClimaSys thermal management systems


1


2


3


4


5

1 ClimaSys CC mechanical thermostats				
Type of control	Control of a resistance hearter or alarm		Control of a fan or alarm	
Setting range	0…+60 °C	+32…+140 °F	0…+60 °C	+32…+140 °F
Reference	**NSYCCOTHC**	**NSYCCOTHCF**	**NSYCCOTHO**	**NSYCCOTHOF**
2 ClimaSys CC electronic thermostats, hygrotherm and hygrostat with LED display				
Type of control	Electronic temperature controller	Electronic temperature and humidity controller	Electronic humidity controller	
Setting range	-40 °C…+80 °C			
Reference	**NSYCCOTH30VID** **NSYCCOTH120VID** **NSYCCOTH230VID**	**NSYCCOHYT30VID** **NSYCCOHYT120VID** **NSYCCOHYT230VID**	**NSYCCOHY230VID**	
3 ClimaSys CR insulated resistance heaters, 2 poles				
Power (W)	10		20	
Voltage (V)	110-250 AC	12-24 DC	110-250 AC	12-24 DC
Reference	**NSYCR10WU2C**	**NSYCR10WU1C**	**NSYCR20WU2C**	**NSYCR20WU1C**
4 ClimaSys CR aluminum resistance heaters				
Power (W)	10		20	
Voltage (V)	12-24 DC	110-250 AC	12-24 DC	110-250 AC
Reference	**NSYCR10WU1**	**NSYCR10WU2**	**NSYCR20WU1**	**NSYCR20WU2**
Power (W)	20	55	55	55
Voltage (V)	270-420 AC	12-24 DC	110-250 AC	270-420 AC
Reference	**NSYCR20WU3**	**NSYCR55WU1**	**NSYCR55WU2**	**NSYCR55WU3**

5 ClimaSys CRS ultra-thin resistance heaters						
Power (W)	10		25		50	
Voltage (V)	120 AC	240 AC	120 AC	240 AC	120 AC	240 AC
Inrush current (A)	0.08	0.04	0.21	0.10	0.42	0.21
Height (mm)	130	130	130	130	200	200
Width (mm)	250	250	250	250	320	320
Depth (mm)	1.6	1.6	1.6	1.6	1.6	1.6
Reference	**NSYCRS10W120V**	**NSYCRS10W240V**	**NSYCRS25W120V**	**NSYCRS25W240V**	**NSYCRS50W120V**	**NSYCRS50W240V**

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Limit switches: XC Wireless

Choose : 1 Body > 2 Head > 3 Contact > 4 Connection > Reference













		One way pulsed wireless transmission	Metal Roller Plunger	Metal End Plunger	Plastic Roller Lever	Metal Roller Lever	Adjustable Length Plastic Roller Lever
XCMW	Snap Action		XCMW102	XCMW110	XCMW115	XCMW116	XCMW145

Receivers

Choose : 1 Body > 2 Connection > 3 Output function > Reference









		4xPNP	2xRelays				
ZBRR	32 Transmitters	ZBRRC	ZBRRD	XZBW	2 Transmitters	2 x PNP (Q1 & Q2)	XZBWR2STT24

Radio transmitter

Connects to any sensor or switch!



		2-way continuous Wireless transmission
NO		XZBWE112A24

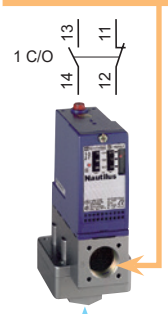
9

Pressure switches: XM Range

Choose : Family (1) / Fluids & pressure (1) > (2) Output type > (3) Electrical connection > (4) Fluid connection > Reference

XMLA / XMLB Electromechanical

Hydraulic oils, air, fresh water, sea water / Temp. : up to 70° C

Screw terminal	Bar	psi	1 C/O single pole contact fixed differential			1 C/O single pole contact adjustable differential		
			ISO M20	Pg13	DIN connector	ISO M20	Pg13	DIN connector
	-1	-14.5	XMLAM01V2S12	XMLAM01V2S11	XMLAM01V2C11	XMLBM02V2S12	XMLBM02V2S11	XMLBM02V2C11
	2.5	36.3	XMLA002A2S12	XMLA002A2S11	XMLA002A2C11	XMLB002A2S12	XMLB002A2S11	XMLB002A2C11
	4	58	XMLA004A2S12	XMLA004A2S11	XMLA004A2C11	XMLB004A2S12	XMLB004A2S11	XMLB004A2C11
	10	145	XMLA010A2S12	XMLA010A2S11	XMLA010A2C11	XMLB010A2S12	XMLB010A2S11	XMLB010A2C11
	20	290	XMLA020A2S12	XMLA020A2S11	XMLA020A2C11	XMLB020A2S12	XMLB020A2S11	XMLB020A2C11
	35	508	XMLA035A2S12	XMLA035A2S11	XMLA035A2C11	XMLB035A2S12	XMLB035A2S11	XMLB035A2C11
	Hydraulic oils / Temp. : up to 160° C							
	1	14.5	XMLA001R2S12	XMLA001R2S11	XMLA001R2C11	XMLB001R2S12	XMLB001R2S11	XMLB001R2C11
	70	1015	XMLA070D2S12	XMLA070D2S11	XMLA070D2C11	XMLB070D2S12	XMLB070D2S11	XMLB070D2C11
	160	2320	XMLA160D2S12	XMLA160D2S11	XMLA160D2C11	XMLB160D2S12	XMLB160D2S11	XMLB160D2C11
	300	4350	XMLA300D2S12	XMLA300D2S11	XMLA300D2C11	XMLB300D2S12	XMLB300D2S11	XMLB300D2C11
G 1/4 (female)	500	7250	XMLA500D2S12	XMLA500D2S11	XMLA500D2C11	XMLB500D2S12	XMLB500D2S11	XMLB500D2C11

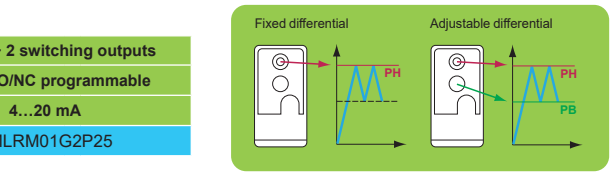
XMLR Electronic + Display

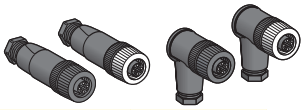
Hydraulic oils, air, fresh water, refrigerant fluids

M12 4 pin or 5 pin	Bar	psi	-20… +80° C Analog output		-20… +80° C Analog + 2 switching outputs PNP - NO/NC programmable
			4…20 mA	0…10 V	4…20 mA
	-1	-14.5	XMLRM01G0T25	XMLRM01G0T75	XMLRM01G2P25
	1	14.5	XMLR001G0T25	XMLR001G0T75	
	2.5	35.2	XMLR2D5G0T25	XMLR2D5G0T75	
	10	145	XMLR010G0T25	XMLR010G0T75	XMLR010G2P25
	16	232	XMLR016G0T25	XMLR016G0T75	XMLR016G2P25
	25	362	XMLR025G0T25	XMLR025G0T75	
	40	580	XMLR040G0T25	XMLR040G0T75	XMLR040G2P25
	100	1450	XMLR100M0T25	XMLR100M0T75	
	160	2320	XMLR160M0T25	XMLR160M0T75	
	250	3625	XMLR250M0T25	XMLR250M0T75	XMLR250M2P25
	400	5800	XMLR400M0T25	XMLR400M0T75	XMLR400M2P25
	600	8700	XMLR600M0T25	XMLR600M0T75	

Hydraulic oils, air, fresh water, refrigerant fluids

G 1/4A (female)	Bar	psi	-20… +80° C Analog + switching output PNP - NO/NC programmable		-20… +80° C 2 switching outputs PNP - NO/NC programmable
			4…20 mA	0…10 V	
	-1	-14.5	XMLRM01G1P25	XMLRM01G1P75	XMLRM01G2P05
	1	14.5	XMLR001G1P25	XMLR001G1P75	XMLR001G2P05
	2.5	35.2	XMLR2D5G1P25	XMLR2D5G1P75	XMLR2D5G2P05
	10	145	XMLR010G1P25	XMLR010G1P75	XMLR010G2P05
	16	232	XMLR016G1P25	XMLR016G1P75	XMLR016G2P05
	25	362	XMLR025G1P25	XMLR025G1P75	XMLR025G2P05
	40	580	XMLR040G1P25	XMLR040G1P75	XMLR040G2P05
	100	1450	XMLR100M1P25	XMLR100M1P75	XMLR100M2P05
	160	2320	XMLR160M1P25	XMLR160M1P75	XMLR160M2P05
	250	3625	XMLR250M1P25	XMLR250M1P75	XMLR250M2P05
	400	5800	XMLR400M1P25	XMLR400M1P75	XMLR400M2P05
	600	8700	XMLR600M1P25	XMLR600MP75	XMLR600M2P05

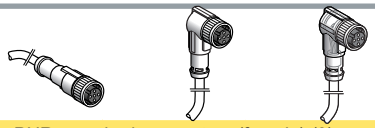




Cabling XM

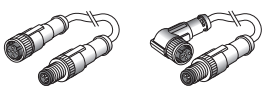
Connectors (female)			
M12		straight	elbowed
(1)	4 pin	XZCC12FDM40B	XZCC12FCM40B
(2)	4 pin	XZCC12FDP40B	XZCC12FCP40B
(1)	5 pin	XZCC12FDM50B	XZCC12FCM50B

(1) Steel ring (2) Plastic ring



PUR pre wired connectors (female) (3)				
M12		straight	elbowed	elbowed PNP LED
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10

(3) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●



PUR Jumper cables			
M12 (female)		straight	elbowed
M12 (male)		straight	straight
4 pin	1 m	XZCR1511041C1	XZCR1512041C1
	2 m	XZCR1511041C2	XZCR1512041C2

Pressure switches: XM Range

Choose : Family **1** / **1** (Fluids & pressure) > **2** Output type > **3** Electrical connection > **4** Fluid connection > Reference

XMLP Electronic transmitter

M12 4 pin (male)



G 1/4A (male)

Hydraulic oils, air, fresh water

–30…+85° C		Analog output		
Bar	psi	4…20 mA	0…10 V	0.5…4.5 V
-1	-14.5	XMLPM00GD21F	XMLPM00GD71F	XMLPM00GD11F
1	14.5	XMLP001GD21F	XMLP001GD71F	XMLP001GD11F
6	87	XMLP006GD21F	XMLP006GD71F	XMLP006GD11F
10	145	XMLP010BD21F	XMLP010BD71F	XMLP010BD11F
16	232	XMLP016BD21F	XMLP016BD71F	XMLP016BD11F
25	362	XMLP025BD21F	XMLP025BD71F	XMLP025BD11F
40	580	XMLP040BD21F	XMLP040BD71F	XMLP040BD11F
60	870	XMLP060BD21F	XMLP060BD71F	XMLP060BD11F
100	1450	XMLP100BD21F	XMLP100BD71F	XMLP100BD11F
160	2320	XMLP160BD21F	XMLP160BD71F	XMLP160BD11F
250	3625	XMLP250BD21F	XMLP250BD71F	XMLP250BD11F
400	5800	XMLP400BD21F	XMLP400BD71F	XMLP400BD11F
600	8700	XMLP600BD21F	XMLP600BD71F	XMLP600BD11F

ZMLP Display and switch

M12 4 pin (male)

PNP



M12 4 pin (female)

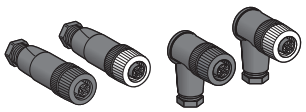
4-20 mA analog + switching output		2 switching outputs
NO/NC Programmable		NO/NC Programmable
Window	Hysteresis	Fixed hysteresis
ZMLPA1P2SW	ZMLPA1P2SH	ZMLPA2P0SH

Only usable with 4-20mA analog output XMLP electronic transmitter





Quick mounting bracket	Horizontal plan	Vertical plan or pipe
	XMLPZLH01	XMLPZLV01



Cabling XM

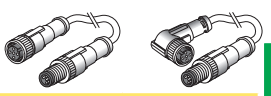
		Connectors (female)	
M12		straight	elbowed
(1)	4 pin	XZCC12FDM40B	XZCC12FCM40B
(2)	4 pin	XZCC12FDP40B	XZCC12FCP40B
(1)	5 pin	XZCC12FDM50B	XZCC12FCM50B

(1) Steel ring (2) Plastic ring



		PUR pre wired connectors (female) (3)		
M12		straight	elbowed	elbowed PNP LED
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10

(3) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●



		PUR Jumper cables	
M12 (female)		straight	elbowed
M12 (male)		straight	straight
4 pin	1 m	XZCR1511041C1	XZCR1512041C1
	2 m	XZCR1511041C2	XZCR1512041C2

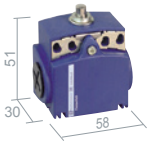
9

Limit switches: XC Range

See Page 53 for **XC Wireless SPOTLIGHT!**

Choose : 1 Body > 2 Head > 3 Contact > 4 Connection > Reference















							(1)	(1)
XCKD Metal	NO+NC Snap	M16	XCKD2110P16	XCKD2102P16	XCKD2121P16	XCKD2106P16	XCKD2118P16	XCKD2145P16
		Pg11	XCKD2110G11	XCKD2102G11	XCKD2121G11	XCKD2106G11	XCKD2118G11	XCKD2145G11
		M12 5P	XCKD2110M12	XCKD2102M12	XCKD2121M12	XCKD2106M12	XCKD2118M12	XCKD2145M12
XCKP Plastic	NO+NC Snap	M16	XCKP2110P16	XCKP2102P16	XCKP2121P16	XCKP2106P16	XCKP2118P16	XCKP2145P16
		Pg11	XCKP2110G11	XCKP2102G11	XCKP2121G11	XCKP2106G11	XCKP2118G11	XCKP2145G11
		M12 4P	XCKP2110M12	XCKP2102M12	XCKP2121M12	XCKP2106M12	XCKP2118M12	XCKP2145M12
XCKT Plastic	NO+NC Snap	M16	XCKT2110P16	XCKT2102P16	XCKT2121P16	XCKT2106P16	XCKT2118P16	XCKT2145P16
		Pg11	XCKT2110G11	XCKT2102G11	XCKT2121G11	XCKT2106G11	XCKT2118G11	XCKT2145G11

								(1)	(2)
XCMD Metal	NO+NC Snap	1 m	XCMD2110L1	XCMD2102L1	XCMD2124L1	XCMD21F0L1	XCMD21F2L1	XCMD2115L1	XCMD2116L1
	NO+NC Slow	1 m	XCMD2510L1	XCMD2502L1	XCMD2524L1	XCMD25F0L1	XCMD25F2L1	XCMD2515L1	XCMD2516L1
	NO+NC Snap	M12 5P	XCMD2110C12	XCMD2102C12	XCMD2124C12	XCMD21F0C12	XCMD21F2C12	XCMD2115C12	XCMD2116C12
	1 C/O Snap	M12 4P	XCMD2110M12	XCMD2102M12	XCMD2124M12	XCMD21F0M12	XCMD21F2M12	XCMD2115M12	XCMD2116M12

						(1)	
XCKM Metal	NO+NC Snap	M20	XCKM110H29	XCKM102H29	XCKM121H29	XCKM115H29	XCKM106H29
		Pg11	XCKM110	XCKM102	XCKM121	XCKM115	XCKM106
XCKL Metal	NO+NC Snap	CG	XCKL110	XCKL102	XCKL121	XCKL115	XCKL106

					(1)	(2)	(1)	
XCKJ Metal	NO+NC Snap	M20	XCKJ161H29	XCKJ167H29	XCKJ10511H29	XCKJ10513H29	XCKJ10541H29	XCKJ10559H29
		Pg13	XCKJ161	XCKJ167	XCKJ10511	XCKJ10513	XCKJ10541	XCKJ10559
		1/2NPT	XCKJ161H7	XCKJ167H7	XCKJ10511H7	XCKJ10513H7	XCKJ10541H7	XCKJ10559H7
		M12 5P	XCKJ161D	XCKJ167D	XCKJ10511D	XCKJ10513D	XCKJ10541D	XCKJ10559D

(1) Plastic roller (2) Steel roller

		NC+2NO Slow	2NC+NO Slow	3NC Slow	Accessories	
XCSA Metal	M20	XCSA502	XCSA702	XCSA802	XCSZ01	XCSZ03
	Pg13	XCSA501	XCSA701	XCSA801		
	1/2NPT	XCSA503	XCSA703	XCSA803		

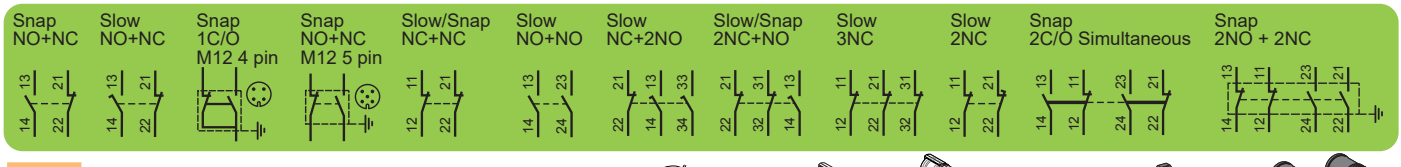




		NC+N0 Slow	2NC Slow	2NO+NC Slow	2NC+NO Slow	2NC+N0 Snap	Accessories	
XCSPA Plastic	M16	XCSPA592	XCSPA792	XCSPA892	XCSPA992	XCSPA492	XCSZ11	XCSZ13
	Pg11	XCSPA591	XCSPA791	XCSPA891	XCSPA991	XCSPA491		
	1/2NPT	XCSPA593	XCSPA793	XCSPA893	XCSPA993	XCSPA493		







M16	Tapped M16x1.5 for ISO cable gland
M20	Tapped M20x1.5 for ISO cable gland
Pg11	Tapped for a N°11 cable gland
Pg13	Tapped for a N°13 cable gland
1/2NPT	Tapped for a 1/2" NPT
PF1/2	Tapped for a PF1/2"
M12 5P	Connector M12, 5 pin
M12 4P	Connector M12, 4 pin
CG	Tapped with cable gland included

Cabling XC



M12		PUR pre wired connectors (female) (1) straight	elbowed	elbowed PNP LED
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10
5 pin	5 m	XZCP1164L5	XZCP1264L5	



M12		Connectors (female) straight	elbowed
(2) 4 pin		XZCC12FDM40B	XZCC12FCM40B
(3) 4 pin		XZCC12FDP40B	XZCC12FCP40B
(2) 5 pin		XZCC12FDM50B	XZCC12FCM50B

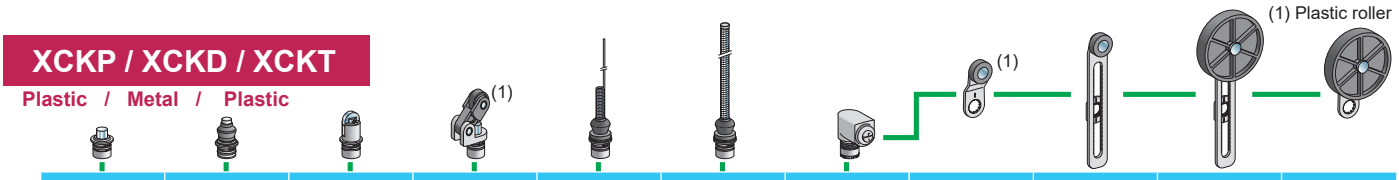
(2) Steel ring (3) Plastic ring

(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●

Limit switches: XC Range

XCKP / XCKD / XCKT

Plastic / Metal / Plastic



	ZCE10	ZCE11	ZCE02	ZCE21	ZCE06	ZCE08	ZCE01	ZCY18	ZCY45	ZCY49	ZCY39

	NO+NC Snap	NO+2NC Snap	NO+NC Slow	NC+NC Slow	NC+NC Snap	NO+NO Slow
XCKP	ZCP21	ZCP39	ZCP25	ZCP27	ZCP29	ZCP28
XCKD	ZCD21	ZCD39	ZCD25	ZCD27	ZCD29	ZCD28

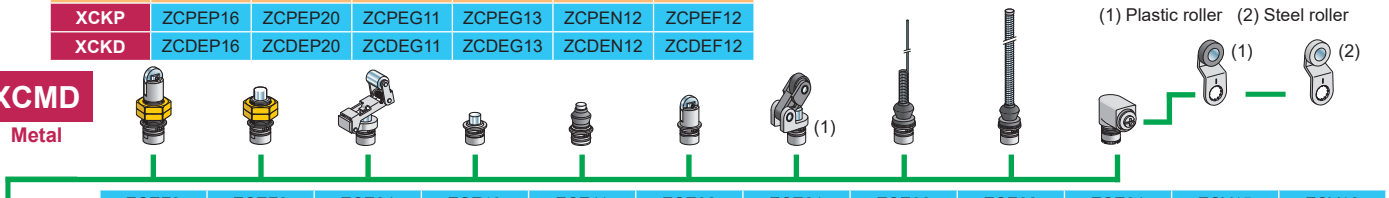
	N0+NC Snap
M12 4P	ZCP21M12
M12 5P	ZCD21M12

XCKT	NC+NC Snap
M16	ZCT21P16
Pg11	ZCT21G11
	NO+NC Slow
M16	ZCT25P16
Pg11	ZCT25G11

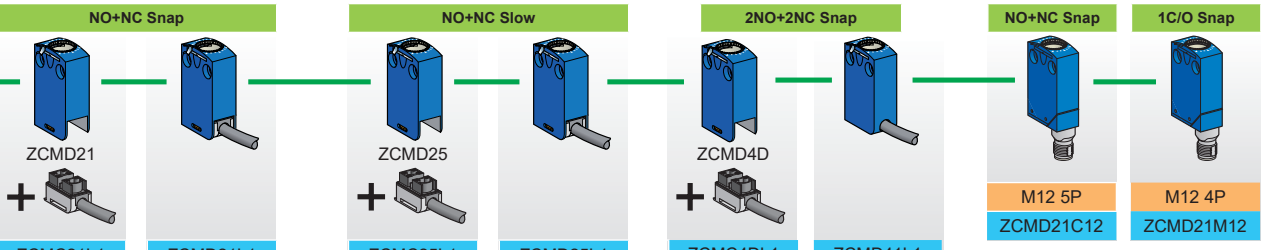
Cable entry	M16	M20	Pg11	Pg13.5	1/2 NPT	PF1/2
XCKP	ZCPEP16	ZCPEP20	ZCPEG11	ZCPEG13	ZCPEN12	ZCPEF12
XCKD	ZCDEP16	ZCDEP20	ZCDEG11	ZCDEG13	ZCDEN12	ZCDEF12

XCMD

Metal



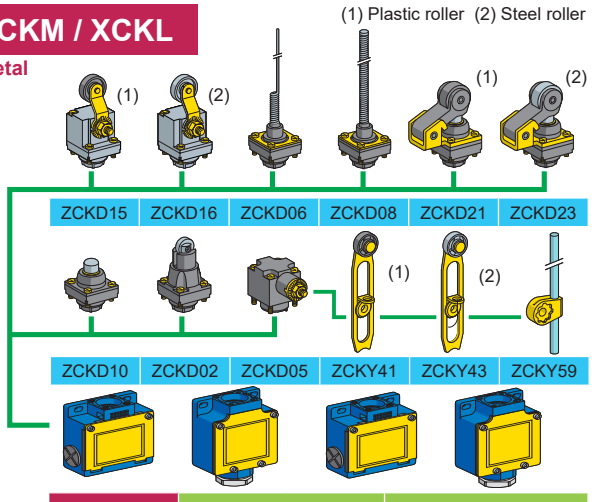
	ZCEF2	ZCEF0	ZCE24	ZCE10	ZCE11	ZCE02	ZCE21	ZCE06	ZCE08	ZCE01	ZCY15	ZCY16



1 m	ZCMC21L1	ZCMD21L1	ZCMC25L1	ZCMD25L1	ZCMC4DL1	ZCMD41L1
2 m	ZCMC21L2	ZCMD21L2	ZCMC25L2	ZCMD25L2	ZCMC4DL2	ZCMD41L2
5 m	ZCMC21L5	ZCMD21L5	ZCMC25L5	ZCMD25L5	ZCMC4DL5	ZCMD41L5

XCKM / XCKL

Metal



	ZCKD15	ZCKD16	ZCKD06	ZCKD08	ZCKD21	ZCKD23

	ZCKD10	ZCKD02	ZCKD05	ZCKY41	ZCKY43	ZCKY59

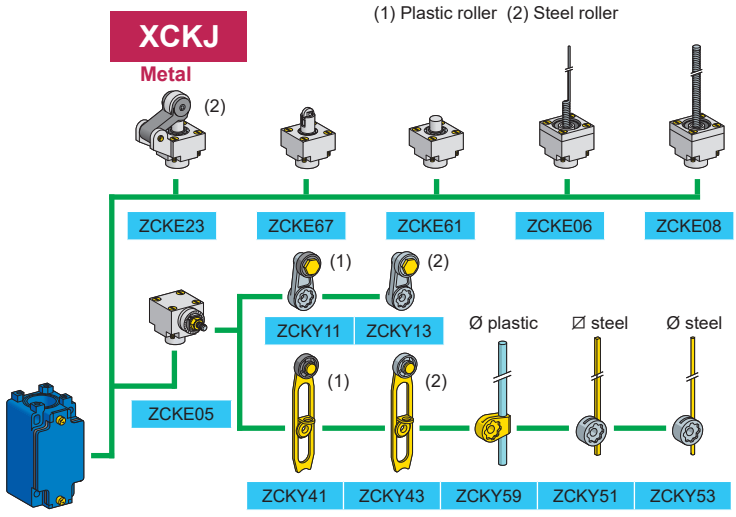
XCKM/XCKL	NO+NC Snap		NO+NC Slow	
3xPg11	ZCKM1		ZCKM5	
3xM20	ZCKM1H29		ZCKM5H29	
PE		ZCKL1		ZCKL5
1/2 NPT		ZCKL1H7		ZCKL5H7

XCKS	NO+NC Snap	NO+NC Slow
Pg13	ZCKS1	ZCKS5
M20	ZCKS1H29	ZCKS5H29

XCKJ	NO+NC Snap	NO+NC Slow	2C/O Simult. Snap
Pg13	ZCKJ1	ZCKJ5	ZCKJ2
M20	ZCKJ1H29	ZCKJ5H29	ZCKJ2H29
1/2 NPT	ZCKJ1H7	ZCKJ5H7	ZCKJ2H7
M12 5P	ZCKJ1D	ZCKJ5D	–

XCKJ

Metal



	ZCKE23	ZCKE67	ZCKE61	ZCKE06	ZCKE08

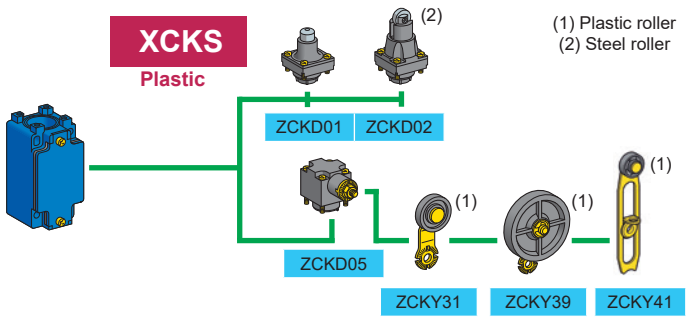
	ZCKE05

	ZCKY11	ZCKY13

	ZCKY41	ZCKY43	ZCKY59	ZCKY51	ZCKY53

XCKS

Plastic



	ZCKD01	ZCKD02

	ZCKD05

	ZCKY31	ZCKY39	ZCKY41

Inductives: XS Range

Choose : Body size (1 / 1) Sensing distance > 2 Output type > 3 Connection > 4 Output function > Reference




Flush mountable Short

			M8		M12	
	Sensing distance		1.5 mm	2.5 mm	2 mm	4 mm
DC3	PNP	cable	XS508B1PAL2	XS108B3PAL2	XS512B1PAL2	XS112B3PAL2
		connector	XS508B1PAM8	XS108B3PAM8	XS512B1PAM12	XS112B3PAM12
	NPN	cable	XS508B1NAL2	XS108B3NAL2	XS512B1NAL2	XS112B3NAL2
		connector	XS508B1NAM8	XS108B3NAM8	XS512B1NAM12	XS112B3NAM12
DC2		cable	XS508BSCAL2	XS608B3CAL2	XS512BSDAL2	XS612B3DAL2
		connector	XS508BSCAL01M12	XS608B3CAL01M12	XS512BSDAM12	XS612B3DAM12

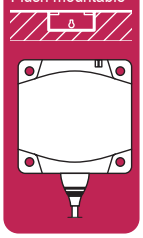
Long

DC3	PNP	cable	XS508BLPAL2	XS608B1PAL2	XS512BLPAL2	XS612B1PAL2
		connector	XS508BLPAM12	XS608B1PAM12	XS512BLPAM12	XS612B1PAM12
	NPN	cable	XS508BLNAL2	XS608B1NAL2	XS512BLNAL2	XS612B1NAL2
		connector	XS508BLNAM12	XS608B1NAM12	XS512BLNAM12	XS612B1NAM12
DC2		cable	XS508B1DAL2	XS608B1DAL2	XS512B1DAL2	XS612B1DAL2
		connector	XS508B1DAM12	XS608B1DAM12	XS512B1DAM12	XS612B1DAM12
AC/DC		cable			XS512B1MAL2	XS612B1MAL2
		connector			XS512B1MAU20	XS612B1MAU20
Output function		NO	A	A	A	A
		NC	B	B	B	B
		NO + NC				(short only) C



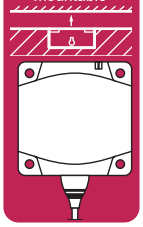



Flush mountable



			⌀ 8x22x8 mm	⌀ 15x32x8 mm	⌀ 26x26x13 mm	⌀ 40x40x15 mm
	Sensing distance		2.5 mm	5 mm	10 mm	15 mm
DC3	PNP	cable	XS7J1A1PAL2	XS7F1A1PAL2	XS7E1A1PAL2	XS7C1A1PAL2
		connector	XS7J1A1PAL01M8	XS7F1A1PAL01M8	XS7E1A1PAM8	XS7C1A1PAM8
	NPN	cable	XS7J1A1NAL2	XS7F1A1NAL2	XS7E1A1NAL2	XS7C1A1NAL2
		connector	XS7J1A1NAL01M8	XS7F1A1NAL01M8	XS7E1A1NAM8	XS7C1A1NAM8
DC2		cable	XS7J1A1DAL2	XS7F1A1DAL2	XS7E1A1DAL2	XS7C1A1DAL2
		connector	XS7J1A1DAL01M8	XS7F1A1DAL01M8	XS7E1A1DAM8	XS7C1A1DAM8

Flush adaptable mountable



			⌀ 26x26x13 mm	⌀ 40x40x15 mm
	Sensing distance		15 mm	25 mm
DC3	PNP	cable	XS8E1A1PAL2	XS8C1A1PAL2
		connector	XS8E1A1PAM8	XS8C1A1PAM8
	NPN	cable	XS8E1A1NAL2	XS8C1A1NAL2
		connector	XS8E1A1NAM8	XS8C1A1NAM8
AC/DC		cable	XS8E1A1MAL2	XS8C1A1MAL2
		connector	XS8E1A1MAL01U20	XS8C1A1MAL01U20
Output function		NO	A	A
		NC	B	B





XS●●●●●●●M8: Connector M8 3 pin


XS●●●●●●●M12: Connector M12 4 pin


XS●●●●●●●U20: Connector 1/2" 3 pin

Cabling XS

M8		PUR pre wired connectors (female) (1) straight	elbowed
3 pin	2 m	XZCP0566L2	XZCP0666L2
	5 m	XZCP0566L5	XZCP0666L5
	10 m	XZCP0566L10	XZCP0666L10
1/2"			
3 pin	5 m	XZCP1865L5	XZCP1965L5

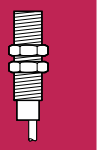
(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●

Inductives: XS Range



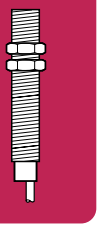

Flush mountable

Short



			M18		M30	
	Sensing distance		5 mm	8 mm	10 mm	15 mm
DC3	PNP	cable	XS518B1PAL2	XS118B3PAL2	XS530B1PAL2	XS130B3PAL2
		connector	XS518B1PAM12	XS118B3PAM12	XS530B1PAM12	XS130B3PAM12
	NPN	cable	XS518B1NAL2	XS118B3NAL2	XS530B1NAL2	XS130B3NAL2
		connector	XS518B1NAM12	XS118B3NAM12	XS530B1NAM12	XS130B3NAM12
DC2		cable	XS518BSDAL2	XS618B3DAL2	XS530BSDAL2	XS630B3DAL2
		connector	XS518BSDAM12	XS618B3DAM12	XS530BSDAM12	XS630B3DAM12

Long



DC3	PNP	cable	XS518BLPAL2	XS618B1PAL2	XS530BLPAL2	XS630B1PAL2
		connector	XS518BLPAM12	XS618B1PAM12	XS530BLPAM12	XS630B1PAM12
	NPN	cable	XS518BLNAL2	XS618B1NAL2	XS530BLNAL2	XS630B1NAL2
		connector	XS518BLNAM12	XS618B1NAM12	XS530BLNAM12	XS630B1NAM12
DC2		cable	XS518B1DAL2	XS618B1DAL2	XS530B1DAL2	XS630B1DAL2
		connector	XS518B1DAM12	XS618B1DAM12	XS530B1DAM12	XS630B1DAM12
AC/DC		cable	XS518B1MAL2	XS618B1MAL2	XS530B1MAL2	XS630B1MAL2
		connector	XS518B1MAU20	XS618B1MAU20	XS530B1MAU20	XS630B1MAU20
Output function		NO	A	A	A	A
		NC	B	B	B	B
		NO + NC		(short only) C		(short only) C

Accessories



M8	XSZB108
M12	XSZB112
M18	XSZB118
M30	XSZB130



Screw terminal M 20



Connector M 12, 4 pin

Flush mountable

80x80x26 mm

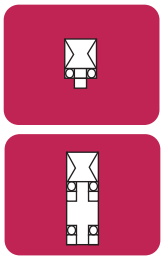
	Sensing distance		40 mm
DC3	PNP	cable	XS7D1A1PAL2
		connector	XS7D1A1PAM12
	NPN	cable	XS7D1A1NAL2
		connector	XS7D1A1NAM12
DC2		cable	XS7D1A1DAL2
		connector	XS7D1A1DAM12

Flush adaptable mountable

80x80x26 mm

	Sensing distance		60 mm
DC3	PNP	cable	XS8D1A1PAL2
		connector	XS8D1A1PAM12
	NPN	cable	XS8D1A1NAL2
		connector	XS8D1A1NAM12
AC/DC		cable	XS8D1A1MAL2
		connector	XS8D1A1MAU20
Output function		NO	A
		NC	B

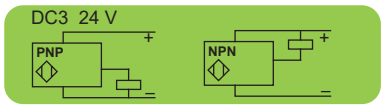
Cubic

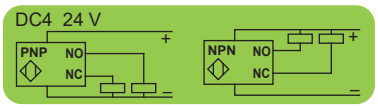


Flush mountable | Non flush mountable

40x40x117 mm

			20 mm	40 mm
DC4	PNP	NO+NC	XS8C2A1PCM12	XS8C2A4PCM12
	NPN	NO+NC	XS8C2A1NCM12	XS8C2A4NCM12
DC2		NO	XS8C2A1DAM12	XS8C2A4DAM12
AC/DC		NO	XS8C2A1MAU20	XS8C2A4MAU20
DC4	PNP	NO+NC	XS8C4A1PCP20	XS8C4A4PCP20
	NPN	NO+NC	XS8C4A1NCP20	XS8C4A4NCP20
DC2		NO or NC	XS8C4A1DPP20	XS8C4A4DPP20
AC/DC		NO or NC	XS8C4A1MPP20	XS8C4A4MPP20
Select the type of connection		M20	P20	P20
		PG13	G13	G13
		1/2" NPT	N12	N12



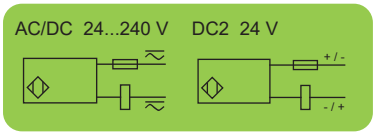


Accessories





For 26x26	XSZBE00	XSZBE90
For 40x40	XSZBC00	XSZBC90



Rotation monitoring: XSAV Range

Choose : 1 Speed > 2 Output Type > Reference



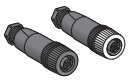
					Low Speed	High Speed
				Sensing distance	10 mm	10 mm
M30	Flush	cable	Output type	DC3-PNP	XSAV11373	XSAV12373
				AC/DC	XSAV11801	XSAV12801



Cabling XS

		PUR pre wired connectors (female) (1)		
M12		straight	elbowed	elbowed PNP LED
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10

(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●




		Connectors (female)	
M12		straight	elbowed
4 pin	(2)	XZCC12FDM40B	XZCC12FCM40B
4 pin	(3)	XZCC12FDP40B	XZCC12FCP40B

(2) Steel ring (3) Plastic ring

Ultrasonics: XX Range

Choose : Body size 1 / Sensing distance 1 > 2 Output function > 3 Output type > 4 Connection > Reference



			M12		M18		M18 plastic (2)	M18 brass (2)	M18 stainless (2)	M18 metal
Sensing distance			0.05 m	0.1 m	0.15 m	0.5 m Adjust. (1)	1 m Adjust. (1)	1 m Adjust. (1)	1 m Adjust. (1)	0.05 m
	Connectors/Cables		M8 4 pin	M8 3 pin	M12 4 pin	M12 4 pin	M12 5 pin	M12 5 pin	M12 5 pin	M12 4 pin
NO	DC4	PNP/NPN	XX512A1KAM8		XX518A1KAM12					
	DC3	PNP		XX512A2PAM8		XX518A3PAM12				XXV18B1PAM12
		NPN		XX512A2NAM8		XX518A3NAM12				XXV18B1NAM12
NO or NC	DC3	PNP					XXS18P1PM12	XXS18B1PM12	XXS18S1PM12	
							XXA18P1PM12	XXA18B1PM12	XXA18S1PM12	
Analog		4...20 mA				XX918A3C2M12	XXS18P1AM12	XXS18B1AM12	XXS18S1AM12	
							XXA18P1AM12	XXA18B1AM12	XXA18S1AM12	
		0...10 V				XX918A3F1M12	XXS18P1VM12	XXS18B1VM12	XXS18S1VM12	
							XXA18P1VM12	XXA18B1VM12	XXA18S1VM12	

(1) Adjustable with XXZPB100 (2) Configurable with XXZBOX01 by software S = straight A = angled



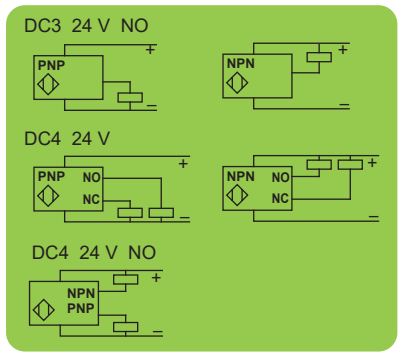
			M30 plastic (2)				M30 Brass (2)			M30 Stainless (2)		
Sensing distance			1 m Adjust. (1)	2 m Adjust. (1)	4 m Adjust. (1)	8 m Adjust. (3)	1 m Adjust. (1)	2 m Adjust. (1)	4 m Adjust. (1)	1 m Adjust. (1)	2 m Adjust. (1)	4 m Adjust. (1)
	Connectors		M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin	M12 5-pin
NO or NC	DC3	PNP	XXS30P1PM12	XXS30P2PM12	XXS30P4PM12		XXS30B1PM12	XXS30B2PM12	XXS30B4PM12	XXS30S1PM12	XXS30S2PM12	XXS30S4PM12
			XXA30P1PM12	XXA30P2PM12			XXA30B1PM12	XXA30B2PM12		XXA30S1PM12	XXA30S2PM12	
	DC4	2 x PNP				XXS30P8PPM12						
		2 x NPN				XXS30P8NNM12						
Analog	DC3	4...20mA	XXS30P1AM12	XXS30P2AM12	XXS30P4AM12		XXS30B1AM12	XXS30B2AM12	XXS30B4AM12	XXS30S1AM12	XXS30S2AM12	XXS30S4AM12
			XXA30P1AM12	XXA30P2AM12			XXA30B1AM12	XXA30B2AM12		XXA30S1AM12	XXA30S2AM12	
		0...10V	XXS30P1VM12	XXS30P2VM12	XXS30P4VM12		XXS30B1VM12	XXS30B2VM12	XXS30B4VM12	XXS30S1VM12	XXS30S2VM12	XXS30S4VM12
			XXA30P1VM12	XXA30P2VM12			XXA30B1VM12	XXA30B2VM12		XXA30S1VM12	XXA30S2VM12	
Analog + NO or NC	DC4	4...20 mA + PNP				XXS30P8APM12						
		0...10V + PNP				XXS30P8VPM12						

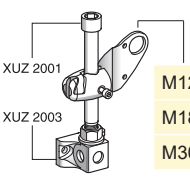
(1) Adjustable with XXZPB100 (2) Configurable with XXZBOX01 by software (3) Push-button integrated on the product S = straight A = angled



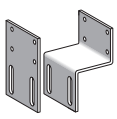
			Flat 7.6x19x33	Flat 16x30x74	Flat 60x30x18 + M18	
Sensing distance			0.1 m	0.25 m	0.5 m Adjust.	0.5 m Adjust.
	Connectors		M12 4 pin	M12 4 pin	M12 4 pin	M12 4 pin
NO	DC3	PNP	XX7F1A2PAL01M12	XX7K1A2PAM12		XX7V1A1PAM12 (1)
		NPN	XX7F1A2NAL01M12	XX7K1A2NAM12		XX7V1A1NAM12 (1)
Analog		4...20 mA			XX9V1A1C2M12 (1)	
		0...10 V			XX9V1A1F1M12 (1)	

(1) Adjustable with XXZPB100





M12	XUZB2012
M18	XUZB2003
M30	XUZB2030

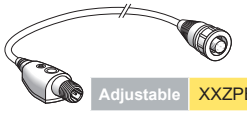


For XX7K

Flat	XXZ3074F
Cranked	XXZ3074S



M12	XXZ12
M18	XUZA118
M30	XXZ30
XX7F	XXZ1933



Adjustable	XXZPB100

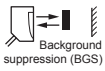
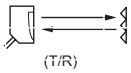
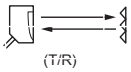
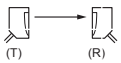
9

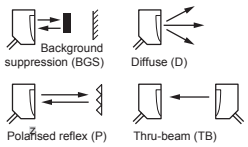
Photo-electrics: XU Range

Choose : Body size & system 1 / Sensing distance 1 > 2 Output type > 3 Connection > 4 Output function > Reference





	Sensing distance				M18 metal	M18 plastic	Miniature	
Diffuse 	0.6 m	DC3	PNP	cable	XUB5BPANL2	XUB5APANL2	1.9 m	XUM5APXBL2
				connector 4P	XUB5BPANM12	XUB5APANM12		XUM5APXBM8
			NPN	cable	XUB5BNANL2	XUB5ANANL2		XUM5ANXBL2
				connector 4P	XUB5BNANM12	XUB5ANANM12		XUM5ANXBM8
		DC3	PNP	cable			1.1 m	XUM6APXBL2
				connector 4P				XUM6APXBM8
			NPN	cable				XUM6ANXBL2
				connector 4P				XUM6ANXBM8
	0.1 m	DC3	PNP	cable	XUB4BPANL2	XUB4APANL2	0.25 m	XUM4APXBL2
				connector 4P	XUB4BPANM12	XUB4APANM12		XUM4APXBM8
			NPN	cable	XUB4BNANL2	XUB4ANANL2		XUM4ANXBL2
				connector 4P	XUB4BNANM12	XUB4ANANM12		XUM4ANXBM8
Background Suppression  Background suppression (BGS)							0.3 m	XUM8APXBL2
								XUM8APXBM8
								XUM8ANXBL2
								XUM8ANXBM8
Polarized Reflex  (T/R)	2 m	DC3	PNP	cable	XUB9BPANL2	XUB9APANL2	8 m	XUM9APXBL2
				connector 4P	XUB9BPANM12	XUB9APANM12		XUM9APXBM8
			NPN	cable	XUB9BNANL2	XUB9ANANL2		XUM9ANXBL2
				connector 4P	XUB9BNANM12	XUB9ANANM12		XUM9ANXBM8
		Accessory: Reflector			XUZC50	XUZC50		XUZC50
Reflex  (T/R)	4 m	DC3	PNP	cable	XUB1BPANL2	XUB1APANL2		
				connector 4P	XUB1BPANM12	XUB1APANM12		
			NPN	cable	XUB1BNANL2	XUB1ANANL2		
				connector 4P	XUB1BNANM12	XUB1ANANM12		
		Accessory: Reflector			XUZC50	XUZC50		
Thru-beam  (T) (R)	15 m	DC3	PNP	cable	XUB2BPANL2R	XUB2APANL2R	30 m	XUM2APXBL2
				connector 4P	XUB2BPANM12R	XUB2APANM12R		XUM2APXBM8
			NPN	cable	XUB2BNANL2R	XUB2ANANL2R		XUM2ANXBL2
				connector 4P	XUB2BNANM12R	XUB2ANANM12R		XUM2ANXBM8
		Transmitter		cable	XUB2BKSNL2T	XUB2AKSNL2T		Transmitters are already included
				connector 4P	XUB2BKSNM12T	XUB2AKSNM12T		
		Output function		**NO**	**A**	**A**		
				NC	**B**	**B**		

Multimode  Background suppression (BGS) / Diffuse (D) / Polarised reflex (P) / Thru-beam (TB)	DC3	PNP	cable	XUB0BPSNL2	XUB0APSNL2		XUM0APSAL2
			connector 4P	XUB0BPSNM12	XUB0APSNM12		XUM0APSAM8
		NPN	cable	XUB0BNSNL2	XUB0ANSNL2		XUM0ANSAL2
			connector 4P	XUB0BNSNM12	XUB0ANSNM12		XUM0ANSAM8
		Sensing distance		Background Sup: 0.12 m	Diffuse: 0.3 m	BGS: 0.1 m	D: 0.4 m
	Output function	NO or NC		Polarized reflex: 3 m	Thru-beam: 20 m	P: 3 m	TB: 10 m
Transmitter	DC		cable	XUB0BKSNL2T	XUB0AKSNL2T		XUM0AKSAL2T
			connector 4P	XUB0BKSNM12T	XUB0AKSNM12T		XUM0AKSAM8T

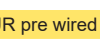


XU●●●●●●M8: Connector M8 4 pin



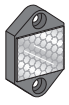
XU●●●●●●M12: Connector M12 4 pin

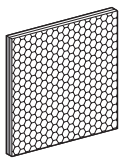
Cabling XU




		PUR pre wired connectors (female) (1)	
M8		straight	elbowed
4 pin	2 m	XZCP0941L2	XZCP1041L2
	5 m	XZCP0941L5	XZCP1041L5
	10 m	XZCP0941L10	XZCP1041L10

Reflectors



XUZC24 | XUZC80 | XUZC50 | XUZC100

(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●

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Photo-electrics: XU Range



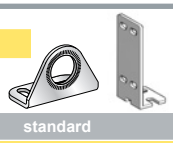


	Sensing distance				Compact 50x50 mm		Sensing distance				Compact 92x71 mm
Diffuse	1 m	DC3	PNP	cable	XUK5APANL2		2.1 m	DC3	PNP	terminals	XUX5APANT16
(T/R)				connector 4P	XUK5APANM12					connector 4P	XUX5APANM12
			NPN	cable	XUK5ANANL2				NPN	terminals	XUX5ANANT16
				connector 4P	XUK5ANANM12					connector 4P	XUX5ANANM12
		AC/DC	Relay	cable	XUK5ARCNL2			AC/DC	Relay	terminals	XUX5ARCNT16
		Output function		**NO**	A						A
				NC	B						B
Polarized Reflex	5 m	DC3	PNP	cable	XUK9APANL2		11 m	DC3	PNP	terminals	XUX9APANT16
(T/R)				connector 4P	XUK9APANM12					connector 4P	XUX9APANM12
			NPN	cable	XUK9ANANL2				NPN	terminals	XUX9ANANT16
				connector 4P	XUK9ANANM12					connector 4P	XUX9ANANM12
		AC/DC	Relay	cable	XUK9ARCNL2			AC/DC	Relay	terminals	XUX9ARCNT16
		Accessory: Reflector			XUZC50						XUZC50
Reflex	7 m	DC3	PNP	cable	XUK1APANL2		14 m	DC3	PNP	terminals	XUX1APANT16
(T/R)				connector 4P	XUK1APANM12					connector 4P	XUX1APANM12
			NPN	cable	XUK1ANANL2				NPN	terminals	XUX1ANANT16
				connector 4P	XUK1ANANM12					connector 4P	XUX1ANANM12
		AC/DC	Relay	cable	XUK1ARCNL2			AC/DC	Relay	terminals	XUX1ARCNT16
		Accessory: Reflector			XUZC50						XUZC50
Thru-beam	30 m	DC3	PNP	cable	XUK2APANL2R		40 m	DC3	PNP	terminals	XUX2APANT16R
(T) (R)				connector 4P	XUK2APANM12R					connector 4P	XUX2APANM12R
			NPN	cable	XUK2ANANL2R				NPN	terminals	XUX2ANANT16R
				connector 4P	XUK2ANANM12R					connector 4P	XUX2ANANM12R
		Accessory: Transmitter		cable	XUK2AKSNL2T					terminals	XUX0AKSAT16T
				connector 4P	XUK2AKSNM12T					connector 4P	XUX0AKSAM12T
		AC/DC	Relay	cable	XUK2ARCNL2R			AC/DC	Relay	terminals	XUX2ARCNT16R
				cable	XUK2ARCNL2T					terminals	XUX0ARCTT16T

Multimode									
Background suppression (BGS)	Diffuse (D)	DC3 PNP/NPN		cable	XUK0AKSAL2	DC3 PNP/NPN		terminals	XUX0AKSAT16
				connector 4P	XUK0AKSAM12			connector 4P	XUX0AKSAM12
		AC/DC	Relay	cable	XUK0ARCTL2	AC/DC	Relay	terminals	XUX0ARCTT16
Polarised reflex (P)	Thru-beam (TB)	Background Suppression: 0.28 m		Diffuse: 0.8 m		Background Suppression: 1.3 m		Diffuse: 2 m	
		Polarized reflex: 4 m		Thru-beam: 30 m		Polarized reflex: 11 m		Thru-beam: 40 m	
Accessory: Transmitter		DC		cable	XUK0AKSAL2T	DC		terminals	XUX0AKSAT16T
				connector 4P	XUK0AKSAM12T			connector 4P	XUX0AKSAM12T
		AC/DC		cable	XUK0ARCTL2T	AC/DC		terminals	XUX0ARCTT16T

Other fixings

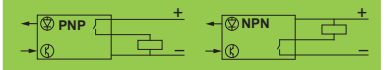
Single bracket





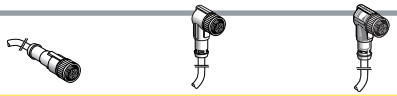
	standard	with ball joint
XUB	XUZA118 (stainlesss steel)	XUZA218 (plastic)
XUM	XUZA50	–
XUK	XUZA51	–
XUX	XUZX2000	–

DC3 24 V



AC/DC Relay 24...240 V





M12		PUR pre wired connectors (female) (1) straight	elbowed	elbowed PNP LED
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10

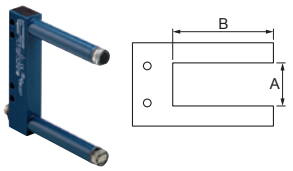
(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●



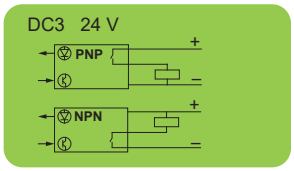
M12	Connectors (female) straight	elbowed
4 pin (2)	XZCC12FDM40B	XZCC12FCM40B
4 pin (3)	XZCC12FDP40B	XZCC12FCP40B

(2) Steel ring (3) Plastic ring

Forks: XUV Range



			A: 50 mm / B: 60 mm	A: 80 mm / B: 60 mm	A: 120 mm / B: 120 mm	A: 180 mm / B: 120 mm
DC3	PNP	M8 3 pin	XUVR0605PANM8	XUVR0608PANM8	XUVR1212PANM8	XUVR1218PANM8
	NPN	M8 3 pin	XUVR0605NANM8	XUVR0608NANM8	XUVR1212NANM8	XUVR1218NANM8
Output function		NO	A	A	A	A
		NC	B	B	B	B

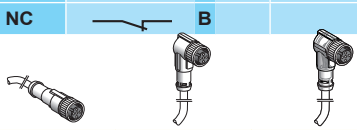



XX512A1●●M8:
Connector M8 4 pin


XX512A2●●M8,
XUVR●●●●●●M8:
Connector M8 3 pin


XX●●●●●●●M12:
Connector M12 4 pin

Cabling XX & XUV



			PUR pre wired connectors (female) (1)		
M8			straight	elbowed	elbowed PNP LED
3 pin	2 m		XZCP0566L2	XZCP0666L2	
	5 m		XZCP0566L5	XZCP0666L5	
	10 m		XZCP0566L10	XZCP0666L10	
4 pin	2 m		XZCP0941L2	XZCP1041L2	
	5 m		XZCP0941L5	XZCP1041L5	
	10 m		XZCP0941L10	XZCP1041L10	
M12					
4 pin	2 m		XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m		XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m		XZCP1141L10	XZCP1241L10	XZCP1340L10



		Connectors (female)	
M12		straight	elbowed
(2)	4 pin	XZCC12FDM40B	XZCC12FCM40B
(3)	4 pin	XZCC12FDP40B	XZCC12FCP40B

(2) Steel ring (3) Plastic ring



		Connectors (male)	
M12		straight	elbowed
	4 pin	XZCC12MDM40B	XZCC12MCM40B
	5 pin	XZCC12MDM50B	XZCC12MCM50B

(1) For a PVC cable, add the letter V after the P. Example: XZCP●●●●●● become XZCPV●●●●●●

RFID Systems: XG Range

Choose : 1 Mounting type > 2 Dimensions > 3 Output or communication protocol > 4 Body type (color, LED, connector) > Reference









Compact 40x40mm			
Sensing distance 18-70mm			
PNP output with 1 pulse	Modbus RTU		
Blue body, connector on back	White body with remote lights, connector on back	Stand alone	
Panel mounting (1)	XGCS491B201	XGCS49LB201	XGCS490B201

(1) compatible with ZB5AZ905 and XGSZCNFAC





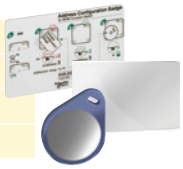




Compact 40x40mm	Compact 80x80mm	
Sensing distance 18-70mm	Sensing distance 20-100mm	
Modbus RTU		Modbus TCP & Ethernet/IP
Blue body, connector and cable by side		
Screw mounting	XGCS4901201	XGCS8901201	XGCS850C201



XGSZCNFAC	Set of configuration badges	XZCC12MDB50R	M12 connector
XGSZCNF01	Configuration badge	XZCPV11V2L2/5/10	M12 pre-wired connector
XGHB90E341	Pack of user's badges	XZCPV12V2L2/5/10	M12 pre-wired connector
XGHBPB3345	Key fob tag		





Accessories

Note: For our complete range of sensor solutions, visit www.tesensors.com

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