

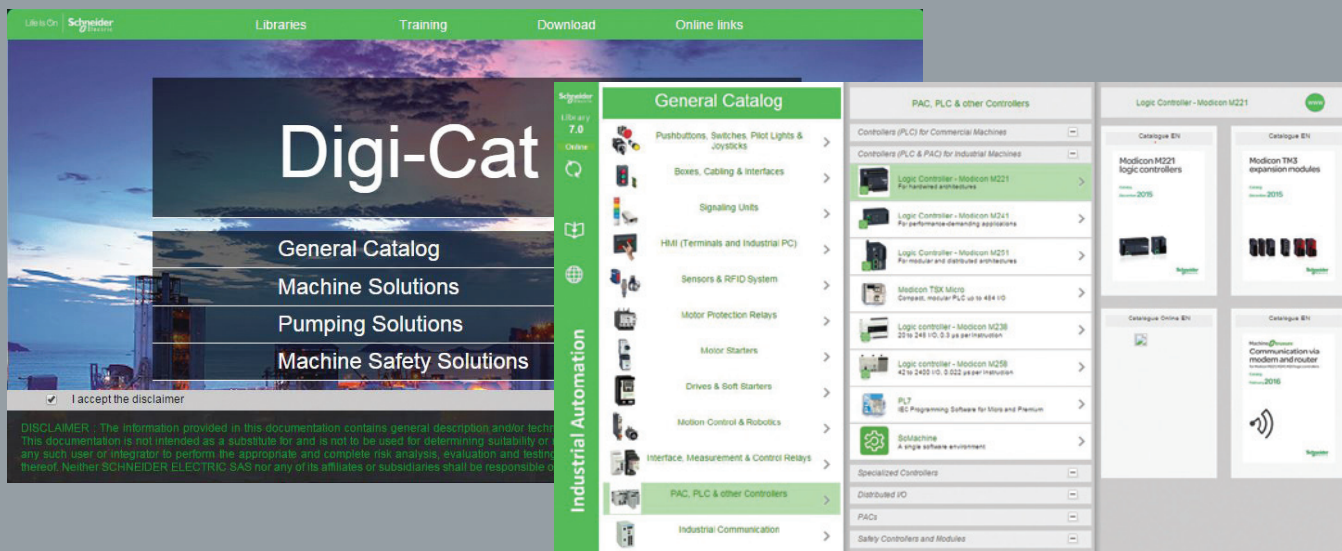
Automation and Control Your Guide

January 2017



Access our catalogs in just 3 clicks!

Digi-Cat available on USB flash drive or as free download



Access any of the 7,000 pages from our Industrial Automation and Control offer catalogs (English or French versions) quickly and easily.

Digi-Cat is available on USB flash drive (for PC).



To request a USB flash drive, simply contact your local Schneider representative.

Digi-Cat is also available to download at the following address:



<http://digi-cat.schneider-electric.com/download.html>

Life Is On

Schneider
Electric

General contents

Harmony control and signaling	1
Magelis Small and Advanced panels	2
TeSys motor control and protection solutions	3
Altistart soft starters and Altivar variable speed drives	4
Zelio automation relays	5
Phaseo power supplies and transformers	6
Preventa safety modules and modular safety controllers	7
Universal enclosures	8
Detection components - Panorama Telemecanique Sensors	9

Harmony control and signaling



Harmony XVU and XVSV signaling solutions



Harmony XVU components for Ø 60 modular tower lights

1 IP 65 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	XVUC23	XVUC24	XVUC25	XVUC26	XVUC27	XVUC28	XVUC29	XVUC29P	
	XVUC43	XVUC44	XVUC45	XVUC46	XVUC47	XVUC48	–	–	
2 IP 54 audible units (for association)									
Voltage	24 V								
Unit type	Buzzer		Sound	Sound with pulse signal					
Color	○ Silver		● Dark gray						
Reference	XVUC9SQ	XVUC9S	XVUC9V	XVUC9VP					
3 IP 65 body units with top cover (for association)									
Voltage	24 VAC/VDC			100...240 VAC					
Color	○ Silver			● Dark gray		○ Silver			
Type	–	–	NPN	PNP	PNP				
Reference	XVUC21BQ	XVUC21B	XVUC21M	XVUC21MP	XVUC21MQP				
Mounting bases for horizontal support (for association)									
Base type	Fixing plates With fixed length aluminum pole				4 With height adjustment aluminum pole (1)		5 Direct fixing plates		
	100 mm/3.937 in		400 mm/ 15.748 in	800 mm/ 31.496 in					
Color	○ Silver		● Dark gray			○ Silver			● Dark gray
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 - IP 42)								
	100 mm		250 mm		400 mm				
Color	● Dark gray		● Dark gray		● Dark gray				
Reference	XVUZ100T		XVUZ250T		XVUZ400T				
Accessories (for association)									
Unit type	Body extender		Flexible mounting unit for use on horizontal or vertical support, IP 55			Fixing accessory for use on vertical support			
Color	○ Silver		● D. gray	● Dark gray		● Black			
Reference	XVUC020Q	XVUC020	XVUZ06 (6)			XVUZ12 (7)			

(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 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 gray		○ White		● Dark gray		○ White	● Dark gray	○ White
Wiring	NPN	PNP	NPN	NPN	PNP	NPN	NPN	NPN	
Reference	XVSV7BBN	XVSV7BBP	XVSV7BWN	XVSV9BBN	XVSV9BBP	XVSV9BWN	XVSV9MBN	XVSV9MWN	
Wall mounting plate (option)	XVSV016								

Harmony XB4 Ø 22 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
Body	ZB4BZ101		ZB4BZ102		ZB4BZ101	
Head	ZB4BA1	ZB4BA2	ZB4BA3	ZB4BA4	ZB4BA5	ZB4BA6

2 Booted pushbuttons with flush push, unmarked

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

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	XB4BL4325 (1)	–	–
Body	ZB4BZ101		ZB4BZ105		ZB4BZ101	ZB4BZ105
Head	ZB4BA334	ZB4BA335	ZB4BA331	ZB4BL432	ZB4BL433	ZB4BA434



4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

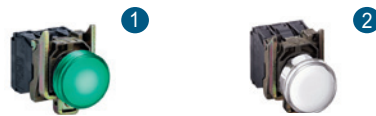
Color	● Red			
Contact	NO + NC Push-pull	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals			
Complete product	XB4BT845	XB4BS8444	XB4BS8445	XB4BS9445
Body	ZB4BZ105	ZB4BZ104	ZB4BZ105	
Head	ZB4BT84	ZB4BS844		ZB4BS944

5 Ø 40 mushroom head pushbutton, spring return

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

(1) With projecting push

Harmony XB4 Ø 22 metal pushbuttons



1 Pilot lights with integral LED

Color		○ White	● Green	● Red	● Orange	● Blue	● Yellow
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB4BVB1	XB4BVB3	XB4BVB4	XB4BVB5	XB4BVB6	ZBVB8 (1)
	110...120 VAC	XB4BVG1	XB4BVG3	XB4BVG4	XB4BVG5	XB4BVG6	ZBVG8 (1)
	230...240 VAC	XB4BVM1	XB4BVM3	XB4BVM4	XB4BVM5	XB4BVM6	ZBVM8 (1)

2 Illuminated pushbuttons with flush push and integral LED

Color		○ White	● Green	● Red	● Orange	● Blue	● Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB4BW31B5	XB4BW33B5	XB4BW34B5	XB4BW35B5	XB4BW36B5	ZBVB8 (2)
	110...120 VAC	XB4BW31G5	XB4BW33G5	XB4BW34G5	XB4BW35G5	XB4BW36G5	ZBVG8 (2)
	230...240 VAC	XB4BW31M5	XB4BW33M5	XB4BW34M5	XB4BW35M5	XB4BW36M5	ZBVM8 (2)



3 Selector switches and key switches

Positions (number and type)		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	Black handle	XB4BD21	XB4BD41	XB4BD25	XB4BD33	XB4BD53	
	Long black handle	XB4BJ21	–	–	XB4BJ33	XB4BJ53	
	Key switch (No. 455)	XB4BG21	XB4BG61	–	XB4BG33	–	

4 Illuminated selector switches with integral LED and colored handle

Stay put positions		2 ∨				3 ∨	
Color		● Green	● Red	● Orange	● Green	● Red	
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	XB4BK134G5	XB4BK135G5
	230...240 VAC	XB4BK123M5	XB4BK124M5	XB4BK125M5	XB4BK133M5	XB4BK134M5	XB4BK135M5

5 Double and triple-headed pushbuttons

Type		1 flush and 1 projecting	2 flush	1 flush and 1 projecting	2 flush	2 flush + 1 red central projecting	
Contact		NO + NC		NO + NC with 24 V pilot light	2 NO + NC		
Connection		Screw clamp terminals					
Complete product		XB4BL73415	–	XB4BW73731B5	–	XB4BA731327	–
Body		ZB4BZ105		ZB4BZ105 + ZBVB1		ZB4BZ103 + ZBE102	
Head		ZB4BL7341	ZB4BA7121	ZB4BW7L3741	ZB4BW7A1721	ZB4BA73132	ZB4BA71124

(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 illuminated pushbutton, this body must be combined with a ZB4BZ009 socket and a ZB4BW383 head (to be ordered separately).

Harmony XB5 Ø 22 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	XB5AA11	XB5AA21	XB5AA31	XB5AA42	XB5AA51	XB5AA61
Body	ZB5AZ101			ZB5AZ102	ZB5AZ101	
Head	ZB5AA1	ZB5AA2	ZB5AA3	ZB5AA4	ZB5AA5	ZB5AA6

2 Booted pushbuttons with flush push, unmarked

Complete product	–	XB5AP21	XB5AP31	XB5AP42	XB5AP51	XB5AP61
Body	–	ZB5AZ101			ZB5AZ102	ZB5AZ101
Head	–	ZB5AP2	ZB5AP3	ZB5AP4	ZB5AP5	ZB5AP6

3 Pushbuttons with flush push, marked

Color	○ White	● Black	● Green	● Red	● Green	● Red
Marking	↑	↓	"I" (white)	NC (white)	"START" (white)	"STOP" (white)
Contact	NO		NC		NO	NC
Connection	Screw clamp terminals					
Complete product	XB5AA3341	XB5AA3351	XB5AA3311	XB5AA4322	–	–
Body	ZB5AZ101			ZB5AZ102	ZB5AZ101	ZB5AZ102
Head	ZB5AA334	ZB5AA335	ZB5AA331	ZB5AA432	ZB5AA433	ZB5AA434



4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	● Red			
Contact	NO + NC Push-pull	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals			
Complete product	XB5AT845	XB5AS8444	XB5AS8445	XB5AS9445
Body	ZB5AZ105	ZB5AZ104	ZB5AZ105	
Head	ZB5AT84	ZB5AS844		ZB5AS944

5 Ø 40 mushroom head pushbuttons, spring return

Color	● Black	● Green	● Blue	● Yellow
Contact	NO Push-pull			
Connection	Screw clamp terminals			
Complete product	XB5AC21	–	–	–
Body	ZB5AZ101			
Head	ZB5AC2	ZB5AC3	ZB5AC6	ZB5AC5

Harmony XB5 Ø 22 plastic pushbuttons



1



2

1 Pilot lights with integral LED

Color		○ White	● Green	● Red	● Orange	● Blue	● Yellow
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB5AVB1	XB5AVB3	XB5AVB4	XB5AVB5	XB5AVB6	ZBVB8 (1)
	110...120 VAC	XB5AVG1	XB5AVG3	XB5AVG4	XB5AVG5	XB5AVG6	ZBVG8 (1)
	230...240 VAC	XB5AVM1	XB5AVM3	XB5AVM4	XB5AVM5	XB5AVM6	ZBVM8 (1)
Monolithic product	24 VAC/VDC	XB5EVB1	XB5EVB3	XB5EVB4	XB5EVB5	XB5EVB6	XB5EVB8
	110...120 VAC	XB5EVG1	XB5EVG3	XB5EVG4	XB5EVG5	XB5EVG6	XB5EVG8
	230...240 VAC	XB5EVM1	XB5EVM3	XB5EVM4	XB5EVM5	XB5EVM6	XB5EVM8

2 Illuminated pushbuttons with flush push, with integral LED

Color		○ White	● Green	● Red	● Orange	● Blue	● Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB5AW31B5	XB5AW33B5	XB5AW34B5	XB5AW35B5	XB5AW36B5	ZBVB8 (2)
	110...120 VAC	XB5AW31G5	XB5AW33G5	XB5AW34G5	XB5AW35G5	XB5AW36G5	ZBVG8 (2)
	230...240 VAC	XB5AW31M5	XB5AW33M5	XB5AW34M5	XB5AW35M5	XB5AW36M5	ZBVM8 (2)



3



4



5

3 Selector switches and key switches

Positions		2 ∨	2 ∇	2 ∨	3 ∨	3 ∇	
Contact		Stay put	Spring return	Stay put	Stay put	Spring return	
Connection		NO		NO + NC	2 NO		
Complete product		Screw clamp terminals					
Complete product	Black handle	XB5AD21	XB5AD41	XB5AD25	XB5AD33	XB5AD53	
	Long black handle	XB5AJ21	–	–	XB5AJ33	XB5AJ53	
	Key switch (No. 455)	XB5AG21	XB5AG61	–	XB5AG33	–	

4 Illuminated selector switches with integral LED and colored handle

Stay put positions		2 ∨			3 ∨		
Color		● Green	● Red	● Orange	● Green	● Red	● Orange
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB5AK123B5	XB5AK124B5	XB5AK125B5	XB5AK133B5	XB5AK134B5	XB5AK135B5
	110...120 VAC	XB5AK123G5	XB5AK124G5	XB5AK125G5	XB5AK133G5	XB5AK134G5	XB5AK135G5
	230...240 VAC	XB5AK123M5	XB5AK124M5	XB5AK125M5	XB5AK133M5	XB5AK134M5	XB5AK135M5

5 Double and triple-headed pushbuttons

Type		1 flush 1 projecting	2 flush	1 flush 1 projecting	2 flush	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	–
Body		ZB5AZ105		ZB5AZ105 + ZBVB1		ZB5AZ103 + ZBE102	
Head		ZB5AL7341	ZB5AA7121	ZB5AW7L3741	ZB5AW7A1721	ZB5AA73132	ZB5AA71124

(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 illuminated pushbutton, this body must be combined with a ZB5AZ009 socket and a ZB5AW383 head (to be ordered separately - see previous page).

Harmony XB4 and XB5 pushbuttons: other functions



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



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



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



1 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

2 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

Accessories for Harmony pushbuttons



1 Contact blocks (for XB4 and XB5 pushbuttons)

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

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

Color	○ White	● Green	● Red	● Orange	● Blue	● Yellow		
Connection	Screw clamp terminals							
Reference	Contact block	24 VAC/VDC	ZBVB1	ZBVB3	ZBVB4	ZBVB5	ZBVB6	ZBVB8
		110...120 VAC	ZBVG1	ZBVG3	ZBVG4	ZBVG5	ZBVG6	ZBVG8
		230...240 VAC	ZBVM1	ZBVM3	ZBVM4	ZBVM5	ZBVM6	ZBVM8

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

White marking/Red or black background				Black marking/Yellow background				
O	ZBY2931	I	ZBY2147	AUTO	ZBY2115	ARRET D'URGENCE	ZBY9120	ZBY9130T (1)
OFF	ZBY2312	ON	ZBY2311	START	ZBY2303	EMERGENCY STOP	ZBY9320	ZBY9330T (1)
Without marking/Red or black background				Without marking/Yellow background				
Red	ZBY2101	Black	ZBY2101				ZBY9121	

4 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

5 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 1-line legend 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	
Reference	ZB4BZ021	ZB5AZ021	ZB5AZ023	ZB5AZ025	ZB5AZ022	ZB5AZ024	ZB5AZ026

Harmony XAL plastic control stations



6 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	● Key
Marking	"I" (white)	"START" (white)	NC (white)	"O-I" (white)	"O-I" (white)	"O-I" (white)
Contact	NO		NC	NO		
Connection	Screw clamp terminals					
Complete product	Flush pushbutton	XALD102	XALD103	XALD112	–	–
	Projecting pushbutton	–	–	XALD115	–	–
	Selector switch	–	–	–	XALD134	XALD144

7 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	NC	2 NC	2 NC + NO	NC	2 NC	2 NC + NO
Connection	Screw clamp terminals					
Complete product	XALK178	XALK178F	XALK178G	XALK188	XALK188F	XALK188G

8 Control stations with 2 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 NC red	1 "Stop" red	1 "I" green	1 "Down" black	1 NC 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	XALD215	XALD363B	XALD222	XALD324	XALD328

(1) For padlocking device ZBZ3606

Harmony XB7 Ø 22 monolithic pushbuttons



Flush mounting spring return pushbuttons, unmarked

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



Flush mounting spring return pushbuttons, 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	XB7NA11341	XB7NA21343	XB7NA3131	XB7NA4232	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



Flush mounting illuminated pushbuttons 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	XB7NW35G1	XB7NW36G1	XB7NW37G1	XB7NW38G1
	230 VAC	XB7NW33M1	XB7NW34M1	XB7NW35M1	XB7NW36M1	XB7NW37M1	XB7NW38M1



Selector switches with black handle

Positions	2 ∨	2 ∨	3 ∨	2 ∨	3 ∨	
Type	Stay put			Key withdrawal in LH position	Key withdrawal in centre 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



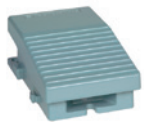
Harmony XD4 joystick controllers

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	K1C003ACH	K1C003QCH



Harmony XPE foot switches

Material/Color	Metal blue	Plastic black	Metal blue			
Cover	No		Yes			
Contact	1 NC + 1 NO		1 NC + 1 NO	2 NC + 2 NO		
Reference	XPEM110	XPEA110	XPEM510	XPEM511		



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



Harmony XB5S biometric switches

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

Harmony remote control system and pendant control stations for hoisting



Harmony eXLhoist wireless remote control system (control devices)

Motion pushbutton	6		6
Auxiliary pushbuttons	2		6
LED or display	LED	Display	Display
Emergency stop mushroom head	Yes	Yes	Yes
Reference	ZART8L	ZART8D	ZART12D



Harmony eXLhoist wireless remote control system (base stations)

Standard output	12		18	
Safety output	2		2	
Inputs	-		18	
Connection	Cable gland	Harting connector		Cable gland
Reference	ZARB12W	ZARB12H	ZARB18W	ZARB18H



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



Magelis Small and Advanced Panels



Magelis STO and STU Small Panels



Magelis STO touch panels - most compact panels			
Screen size		4.3"	
Screen resolution (pixels)		480 x 272	
Touch screen or keypad		Touch screen	
Software		Vijeo XD	
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 (1)	
Cut-out (mm) (2)		112.5 x 77.5	
Dimensions (mm)		124.9 x 90.4 x 38.8	
Reference		HMISTO705	HMISTO715 HMISTO735

(1) ATEX Zone 2/22 certification pending.

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



Magelis STU touch panels - no cut-out required			
Screen size		3.5"	5.7"
Screen resolution (pixels)		320 x 240	
Touch screen or keypad		Touch screen	
Software		Vijeo Designer	
Memory capacity	Application memory	32 MB	
	Backup memory	64 KB	
	Expansion memory	No	
Communication	Ethernet port	1 LAN	
	Serial line	RS-232C/RS-485	
	USB connection	1 type A host connector + 1 mini-B connector	
Operating temperature		0...50 °C	
Industrial certifications		CE, C-Tick, CULus, UL class 1 Div 2 T4A or T5, ATEX Zone 2/22, Marine	
Cut-out (mm)		Ø 22	
Dimensions (mm)		98 x 118 x 55	129 x 163 x 56.5
Reference		HMISTU655	HMISTU855

Magelis GTO Optimum Advanced Panels



Magelis GTO advanced panels with standard front and IP 65 degree of protection

Screen size	3.5"		5.7"	
Screen resolution (pixels)	320 x 240			
Touch screen or keypad	Touch screen + 6 function keys		Touch screen	
Software	Vijeo Designer/Vijeo XD			
Memory capacity	Application memory	64 MB/128 MB	96 MB/128 MB	64 MB/128 MB
	Backup memory	128 KB	512 KB	128 KB
	Expansion memory	No		SD card (1)
Communication	Ethernet port	No	1 LAN port	No
	Serial line	RS-232C (COM1) and RS-485 (COM2)	RS-232C/485 (COM1)	RS-232C (COM1) and RS-485 (COM2)
	USB connection	1 type A host connector + 1 mini-B connector		
Operating temperature	0...50 °C			
Industrial certifications	CE, RCM, EAC, KC, CULus, UL class 1 Div2, ATEX Zone 2/22, Marine			
Cut-out (mm)	118.5 x 92.5		156 x 123.5	
Dimensions (mm)	132 x 106 x 42		169.5 x 137 x 59.5	
Reference	With IP 65 degree of protection	HMIGTO1300	HMIGTO1310	HMIGTO2300
			HMIGTO2310	

2



Magelis GTO advanced panels with standard front and IP 65 degree of protection (continued)

Screen size	7.0"	7.5"	10.4"	12.1"
Screen resolution (pixels)	800 x 480	640 x 480	800 x 600	
Touch screen or keypad	Touch screen + 8 function keys		Touch screen	
Software	Vijeo Designer/Vijeo XD			
Memory capacity	Application memory	96 MB/128 MB		
	Backup memory	128 KB	512 KB	
	Expansion memory	SD card (1)		
Communication	Ethernet port	1 LAN port		
	Serial line	RS-232C (COM1) and RS-485 (COM2)		
	USB connection	1 type A host connector + 1 mini-B connector		
Operating temperature	0...50 °C		0...55 °C	
Industrial certifications	CE, RCM, EAC, KC, CULus, UL class 1 Div2, ATEX Zone 2/22, Marine			
Cut-out (mm)	204.5 x 159.5		259 x 201	301.5 x 227.5
Dimensions (mm)	218 x 173 x 60		272.5 x 214.5 x 57	315 x 241 X 56
Reference	With IP 65 degree of protection	HMIGTO3510	HMIGTO4310	HMIGTO5310
				HMIGTO6310



Magelis GTO advanced panels with stainless steel frame and IP 66K degree of protection

Screen size	5.7"	10.4"	12.1"
Screen resolution (pixels)	320 x 240	640 x 480	800 x 600
Touch screen or keypad	Touch screen		
Software	Vijeo Designer/Vijeo XD		
Memory capacity	Application memory	64 MB/128 MB	96 MB/128 MB
	Backup memory	512 KB	
	Expansion memory	SD card (1)	
Communication	Ethernet port	1 LAN port	
	Serial line	RS-232C (COM1) and RS-485 (COM2)	
	USB connection	1 type A host connector + 1 mini-B connector	
Operating temperature	0...55 °C		
Industrial certifications	CE, RCM, EAC, KC, CULus, UL class 1 Div2, ATEX Zone 2/22		
Cut-out (mm)	195 x 162.5	298 x 240	340.5 x 266.5
Dimensions (mm)	213.5 x 181 x 59.5	316.5 x 258.5 x 57	359 x 285 x 56
Reference	With IP 66K degree of protection	HMIGTO2315	HMIGTO5315
			HMIGTO6315

(1) SD card: accessory sold separately. See our website www.schneider-electric.com

Programming Software and USB Accessories



Vijeo Designer, programming software for Magelis STU small panels and Magelis GTO advanced panels

Compatibility	All Magelis STU small panels and Magelis GTO Optimum advanced panels			
Type of Vijeo Designer license	Single-station Build Time	Multi-station Build Time		
Number of stations	1	3 (team)	10 (group)	Unlimited on 1 site
Type of support	DVD			
License duration	Unlimited			
Reference	VJDSNDTGSV62M	VJDTNDTGSV62M	VJDGNDTGSV62M	VJDFNDTGSV62M



Vijeo XD, programming software for Magelis STO small panels and Magelis GTO advanced panels

Compatibility	All Magelis STO small panels and Magelis GTO Optimum advanced panels (1)			
Type of Vijeo XD license	Vijeo XD DVD (3)	Professional License	Profess. i-License (4)	Express License
Number of stations	1			
Type of support	DVD	Paper	Electronic	Paper
License duration	25 days	Unlimited		
Reference (2)	HMIPEDCZ22	HMIPELCZLSPM●●	HMIPELCZSPA●●	HMIIELCZLSPM●●



USB accessories for Magelis STU small panels and Magelis GTO advanced panels

USB accessories (programmable with Vijeo Designer)	Monolithic USB tower lights		Illuminated USB switch	USB keyboard	Biometric USB switch
Degree of protection	IP 54		IP 65		
Description	<ul style="list-style-type: none"> - 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 		<ul style="list-style-type: none"> 5 customizable soft/static function keys with multi-color LED backlight or alarm acknowledgment 	<ul style="list-style-type: none"> USB keyboard with 12 keys with integrated LEDs that can be used as user customizable function keys or alphanumeric input keys 	<ul style="list-style-type: none"> - Manages access to HMI data via USB port - Levels of authorization through fingerprint recognition - Traceability of users and operations - Database management from PC
Type of mounting	Base for direct mounting	100 mm aluminum support tube mounted on a plate	–	–	–
Compatibility with Magelis	HMI GTO		HMI STU, GTO	HMI STU, GTO	HMI GTO
Reference	XVGU3SWV	XVGU3SHAV	HMIZRA1	HMIZKB1	XB5S5B2L2

(1) For GTO applications, please check with your local Schneider Electric contact.

(2) The dots at the end of the reference represent the version number.

(3) Vijeo XD DVD contains a trial version of the software, active for 25 days. To obtain the unlimited version, a license needs to be purchased.

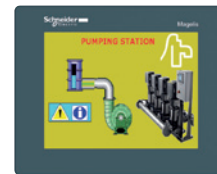
(4) Please check the availability of the i-License with your local Schneider Electric contact.

Magelis Keypad-Touchscreen Panels & HMI Controllers



Magelis GK Keypad-Touchscreen Panels

Screen size	5.7"	10.4"
Screen resolution (pixels)	320 × 240	640 × 480
Touch screen or keypad	Keypad and touch screen	
Software	Vijeo Designer/Vijeo XD	
Memory capacity	Application memory	128 MB
	Backup memory	512 KB
	Expansion memory	SD card (1)
Communication	Ethernet port	1 LAN port
	Fieldbus	Fipio/Fipway and Modbus Plus via USB gateway
	Serial line	RS-232C (COM1) + RS-485 (COM2)
	USB connection	1 type A host connector + 1 mini-B connector
Operating temperature	0...55 °C	
Certifications	CE, RCM, CULus, UL class 1 Div2, EAC, KC	
Cut-out (mm)	209 × 243	285 × 309
Dimensions (mm)	220 × 265 × 70	296 × 332 × 76
Reference	HMIGK2310	HMIGK5310



Magelis SCU HMI Controllers

Screen size	3.5"	5.7"			
Screen resolution (pixels)	320 × 240				
Touch screen or keypad	Touch				
Software	SoMachine				
Memory capacity	Application memory	128 MB			
	Backup memory	128 KB			
	Expansion memory	No			
Digital I/O	Input	16	8	16	8
	Output	10	8	10	8
Analog I/O	Input	No	4	No	4
	Output	No	2	No	2
Communication	Ethernet	1 LAN port			
	Serial Line	RS-485/RS-232 (COM1)			
	Fieldbus	CANopen master			
	USB connection	1 type A host connector + 1 mini-B connector			
Operating temperature	0...50 °C				
Certifications	CE, RCM, CULus, UL class 1 Div2, EAC, KC, Marine, ATEX Zone 2/22				
Cut-out (mm)	Ø 22				
Dimensions (mm)	75 × 128 × 102		129.4 × 163 × 76.2		
Reference	HMISCU6A5	HMISCU6B5	HMISCU8A5	HMISCU8B5	

(1) SD Card sold separately.

Magelis GTU Universal Panels



2

Magelis GTU Displays							
Type of display		Advanced			Smart		
Screen size		7"	10"	12"	10.4"	12.1"	15"
Screen resolution (pixels)		800 × 480	1280 × 800		800 × 600	1024 × 768	
Touch screen or keypad		Touch			Multi-touch		
Compatible Box		Premium/Open			Premium/Open	Open	Premium/Open
Functions	Brightness Sensor	No			Yes		
	Scalar	No			Yes		
	Front USB	No			Yes		
	Wireless Antenna	No			No	Yes	No
Operating temperature		0...60 °C					
Certifications		CE, RCM, CULus, UL class 1 Div2, EAC, KC, Marine, ATEX Zone 2/22					
Cut-out (mm)		190 × 135	255 × 185	295 × 217	259 × 201	301.5 × 227.5	383.5 × 282.5
Dimensions (mm)		204 × 149 × 67	269 × 199 × 67	309 × 231 × 67	273 × 215 × 67	315 × 241 × 67	397 × 296 × 67
Reference		HMIDT351 1	HMIDT551 2	HMIDT651	HMIDT542	HMIDT642 3	HMIDT643
						HMIDT732 4	

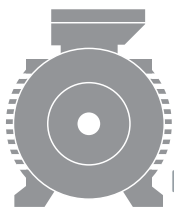


Magelis GTU Box			
Type of Box		Premium	Open
Operating system		Real time OS	Windows 7 Embedded
Software		Vijeo Designer/Vijeo XD	
Memory capacity	Application memory	256 MB	2 GB
	Backup memory	512 KB	
	Expansion memory	SD card	SD card & CFast card 32 GB (1)
Communication	Ethernet port	2 LAN ports	
	Serial Line	RS-485 (COM1) + RS-232/RS-485/RS-422 (COM2)	
	Fieldbus	Fipio/Fipway and Modbus Plus via USB Gateway, CANopen slave module, Profibus DP slave module	
	USB	2 type A host connector + 1 mini-B connector	3 type A host connector + 1 mini-B connector
Operating temperature		0...60 °C	
Certifications		CE, RCM, CULus, UL class 1 Div2, EAC, KC, Marine, ATEX Zone 2/22	
Dimensions (mm)		45 × 131 × 188	
Reference		HMIG3U	HMIG5U

(1) SD card and CFast card sold separately.

TeSys®

Panorama of motor control and protection solutions



Flexible

Safety M



Smart

Connected



Protection

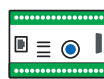


Compliant

Energy efficiency



Reliable



Available



TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
Disconnection and breaking	■	■	■	■	■	■	■	■	■
Short-circuit protection	■	■	■	■	■	■	■	■	■
Overload protection	■	■	■	■	■	■	■	■	■
Control	■	■	■	■	■	■	■	■	■

Voltage coil code

	■ ■	■ ■	■ ■	● ●	★ ★	□ □	□	★ ★	★ ★
	AC	DC	DC < 2.4 W	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	







3

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							
le max. AC3 (Ue ≤ 440 V)	6 A	6 A	6 A	6 A	9 A	9 A	12 A
le AC1 (T < 60°C)	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Contactor with NO auxiliary contact (*)	LC1K0610 ■■	LC1K0610 ■■	LC1K0610 ■■	LC1K0610 ■■	LC1K0910 ■■	LC1K0910 ■■	LC1K1210 ■■
Contactor with NC auxiliary contact (*)	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 disconnecter 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...		
or "safety" version	LZ7H2X...	LZ7H2X...	LZ7H6X...	LZ7H6X...	LZ7H6X...		

(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
 Disconnection and breaking	■	■	■	■	■	■	■	■	■
 Short-circuit protection	■	■	■	■	■	■	■	■	■
 Overload protection	■	■	■	■	■	■	■	■	■
 Control	■	■	■	■	■	■	■	■	■

Voltage coil code

	■ ■	■ ■	■ ■	● ●	★ ★	□ □	□	★ ★	★ ★
	AC	DC	DC < 2.4 W	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	







3

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 D contactor						
le max. AC3 (Ue ≤ 440 V)	9 A	9 A	9 A	9 A	9 A	9 A
le AC1 (T < 60°C)	25 A	25 A	25 A	25 A	25 A	25 A
Contactor (*)	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 disconnecter 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						
Thermal overload relay cl20	LRD06	LRD07	LRD08	LRD10	LRD12	LRD14
	-	-	LRD1508	LRD1510	LRD1512	LRD1514
TeSys U 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..., LAD9AP3... modules provide pre-wired solutions for GV + LC1D control circuits. Use LUFC00 for TeSys U.						

(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
 Disconnection and breaking	■	■	■	■	■	■	■	■	■
 Short-circuit protection	■	■	■	■	■	■	■	■	■
 Overload protection	■	■	■	■	■	■	■	■	■
 Control	■	■	■	■	■	■	■	■	■

Voltage coil code



	■ ■	■ ■	■ ■	● ●	★ ★	□ □	□	★ ★	★ ★
	AC	DC	DC < 2.4 W	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	

3





Motor power AC3 380/400 V	5.5 kW	7.5 kW	9 kW	11 kW	15 kW
TeSys D contactor					
le max. AC3 (Ue ≤ 440 V)	12 A	18 A	25 A	25 A	32 A
le AC1 (T < 60°C)	25 A	32 A	40 A	40 A	50 A
Contactor (*)	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	15 KA	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 disconnecter 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 (1)	LRD332 (1)
Thermal overload relay cl20					
	LRD1516	LRD1521	LRD1522	LRD1522	LRD1532
	-	-	-	LRD325L (1)	LRD332L (1)
TeSys U compact motor starter					
Breaking capacity Icu/400 V	50 kA	50 kA	50 kA	50 kA	50 kA
Power base	LUB12	LUB32	LUB32	LUB32	LUB32
Control unit	LUCA12 ★★	LUCA18 ★★	LUCA32 ★★	LUCA32 ★★	LUCA32 ★★

LAD5C..., LAD9AP3... modules provide pre-wired solutions for GV + LC1D control circuits. Use LUF00 for TeSys U.

(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue (1) BTR screws (EverLink)

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
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	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	

Motor power AC3 380/400 V	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
TeSys D contactor							
le max. AC3 (Ue ≤ 440 V)	40 A	50 A	65 A	80 A	95 A	115 A	150 A
le AC1 (T < 60°C)	60 A	80 A	80 A	125 A	125 A	200 A	200 A
Contactor (*)	LC1D40A ■ ■	LC1D50A ■ ■	LC1D65A ■ ■	LC1D80 ● ●	LC1D95 ● ●	LC1D115 ■ ■	LC1D150 ■ ■
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	70 KA	70 KA	70 KA	70 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV7RS80	GV7RS100	GV7RS150	GV7RS150
	Rotary handle			Tumbler control			
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	15 KA	35 KA	35 KA	35 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV3ME80	GV7RE100	GV7RE150	GV7RE150
	Rotary handle			Pushbutton control	Tumbler control		
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	70 KA	70 KA	70 KA	70 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	NS80HMA	NSX100HMA	NSX160HMA	NSX160HMA
	Rotary handle			Tumbler control			
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	70 KA	50 KA	50 KA	50 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	NS80HMA	NSX100NMA	NSX160NMA	NSX160NMA
	Rotary handle			Tumbler control			
Switch disconnecter fuse	GS2F	GS2F	GS2J	GS2J	GS2J	GS2K	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	-	-	-	LRD3363	LRD3365	LRD4367	LRD4369
	LRD340	LRD350	LRD365	-	-	LR9D5369 (1)	LR9D5369 (1)
Thermal overload relay cl20	LRD340L	LRD350L	LRD365L	LR2D3563	-	LR9D5569 (1)	LR9D5569 (1)

(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue
 (1) Electronic products

TeSys Universal

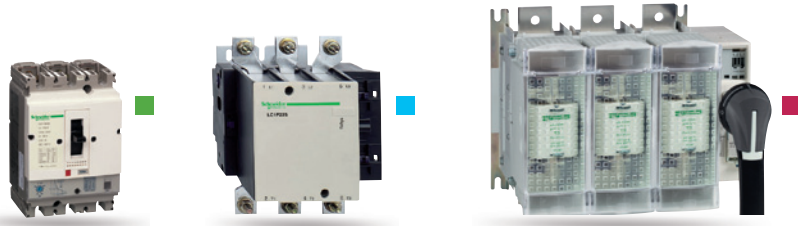
Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnector fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnector	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	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	AC/DC	AC	DC
24 V	B7	BD	BL			
48 V	E7	ED	EL			
72 V		SD	SL			
110 V	F7	FD		FW	F7	FD
220 V	M7			MW	M7	MD
230 V	P7			MW	P7	
400 V	V7			QW	V7	

3



Motor power AC3 380/400 V	90 kW	110 kW	132 kW	160 kW	200 kW	250 kW	315 kW	400 kW	560 kW
TeSys F contactor									
le max. AC3 (Ue ≤ 440 V)	185 A	225 A	265 A	330 A	400 A	500 A	630 A	800 A	1000 A
le AC1 (T < 60°C)	275 A	315 A	350 A	400 A	500 A	700 A	1000 A	1000 A	1250 A
Contactor (*)	LC1F185 ■■	LC1F225 ■■	LC1F265 ■■	LC1F330 ■■	LC1F400 ■■	LC1F500 ■■	LC1F630 ■■	LC1F800 □□	LC1F1000 ★★
Breaking capacity Icu/400 V	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA
Thermal-magnetic circuit breaker	GV7RS220	GV7RS220	NSX400H	NSX400H	NSX630H	NSX630H	NS800H	NS800H	NS1000L
	Tumbler control		(1)	(1)	(1)	(1)	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	35 KA	35 KA	45 KA	45 KA	45 KA	45 KA	50 KA	50 KA	42 KA
Thermal-magnetic circuit breaker	GV7RE220	GV7RE220	NSX400N	NSX400N	NSX630N	NSX630N	NS800N	NS800N	NS1000L
	Tumbler control		(1)	(1)	(1)	(1)	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA	70 KA
Magnetic circuit breaker	NSX250HMA	NSX250HMA	NSX400H	NSX400H	NSX630H	NSX630H	NS800H	NS800H	NS1000L
	Tumbler control		Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	(2)	(2)	(2)
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	50 KA	50 KA	50 KA	50 KA	50 KA	42 KA
Magnetic circuit breaker	NSX250NMA	NSX250NMA	NSX400N	NSX400N	NSX630N	NSX630N	NS800N	NS800N	NS1000L
	Tumbler control		Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	(2)	(2)	(2)
Switch disconnector fuse	GS2N	GS2N	GS2N	GS2QQ	GS2QQ	GS2S	GS2S	GS2V	GS2V
Fuse type	T1	T1	T1	T2	T2	T3	T3	T4	T4
Operational current Ie/400 V	200 A	250 A	315 A	400 A	500 A	500 A	630 A	800 A	1000 A
Thermal overload relay cI10A	-	-	-	-	-	-	LRD10 + current transformer 5A/5VA (3)		
	LR9F5371	LR9F5371	LR9F7375	LR9F7375	LR9F7379	LR9F7379	LR9F7381	-	-
Thermal overload relay cI20	LR9F5571	LR9F5571	LR9F7575	LR9F7575	LR9F7579	LR9F7579	LR9F7579	-	-

(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue





(1) Micrologic 2.3-M or Micrologic 6.3-M for advanced motor protection

(2) Micrologic 5.0 + Plug LR Off

(3) Electromechanical product

TeSys Universal

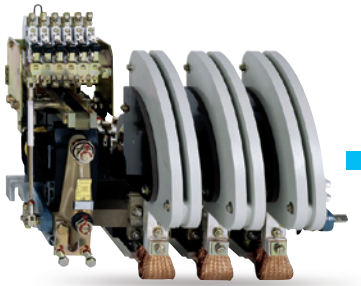
Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
 Disconnection and breaking	■	■	■	■	■	■	■	■	■
 Short-circuit protection	■	■	■	■	■	■	■	■	■
 Overload protection	■	■	■	■	■	■	■	■	■
 Control	■	■	■	■	■	■	■	■	■

Voltage coil code

	■ ■	■ ■	■ ■	● ●	★ ★	□ □	□	★ ★	★ ★
	AC	DC	DC < 2.4 W	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	

3



Motor power AC3 380/400 V	400 kW	500 kW	630 kW	800 kW	900 kW
TeSys B contactor (3)					
Ie max. AC3 (Ue ≤ 440 V)	800 A	1000 A	1500 A	1500 A	1800 A
Ie AC1 (T < 60°C)	800 A	1250 A	2000 A	2000 A	2750 A
Contactor (*)	LC1BL33 □	LC1BM33 □	LC1BP33 □	LC1BP33 □	LC1BR33 □
Breaking capacity Icu/400 V	70 KA	70 KA	70 KA	85 KA	85 KA
Thermal-magnetic circuit breaker	NS800H	NS1000H	NS1250H	NS1600H	NS2000H
	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	70 KA	70 KA
Thermal-magnetic circuit breaker	NS800N	NS1000N	NS1250N	NS1600N	NS2000N
	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	70 KA	70 KA	70 KA	85 KA	85 KA
Magnetic circuit breaker	NS800H	NS1000H	NS1250H	NS1600H	NS2000H
	(2)	(2)	(2)	(2)	(2)
Breaking capacity Icu/400 V	50 KA	50 KA	50 KA	70 KA	70 KA
Magnetic circuit breaker	NS800N	NS1000N	NS1250N	NS1600N	NS2000N
	(2)	(2)	(2)	(2)	(2)
Switch disconnecter fuse	GS2V	GS2V	GS2V	GS2V	GS2V
Fuse type	T4	T4	T4	T4	T4
Operational current Ie/400 V	800 A	1000 A	1250 A	2 x 800 A	2 x 1000 A





(*) The end of the product references must be replaced by a coil voltage code as indicated above (eg.: "P7" for 230 V AC, "BD" for 24 V DC). For more details, please refer to TeSys catalogue

(2) Micrologic 5.0 + Plug LR Off

(3) For further information, see TeSys B application notes available on www.schneider-electric.com

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnect fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys B, K, D, F	TeSys GV	TeSys GV.L	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
	Disconnection and breaking	■	■	■	■	■	■	■	■
	Short-circuit protection	■	■	■	■	■	■	■	■
	Overload protection	■	■	■	■	■	■	■	■
	Control	■	■	■	■	■	■	■	■



3

TeSys Mini-Vario for standard applications

Function	Mounting	Fixing	Model 1	Model 2
Main switch disconnecter	Door mounting	Ø 22.5 fixing	VBDN12	VBDN20
		4 screw fixing	-	-
Switch disconnecter Emergency stop	Mounting at back of enclosure	Ø 22.5 fixing	VCCDN12	VCCDN20
		4 screw fixing	-	-
	Door mounting	Ø 22.5 fixing	VCDN12	VCDN20
		4 screw fixing	-	-
		Thermal current I _{th} (A)	12	20

TeSys Vario for high performance applications

Function	Mounting	Fixing	Model 1	Model 2	Model 3	Model 4	Model 5
Main switch disconnecter	Door mounting	Ø 22.5 fixing	VBD02	VBD01	VBD0	VBD1	VBD2
		4 screw fixing	VBF02	VBF01	VBF0	VBF1	VBF2
Switch disconnecter Emergency stop	Mounting at back of enclosure	Ø 22.5 fixing	VCCD02	VCCD01	VCCD0	VCCD1	VCCD2
		4 screw fixing	VCCF02	VCCF01	VCCF0	VCCF1	VCCF2
	Door mounting	Ø 22.5 fixing	VCD02	VCD01	VCD0	VCD1	VCD2
		4 screw fixing	VCF02	VCF01	VCF0	VCF1	VCF2
		Thermal current I _{th} (A)	12	20	25	32	40

TeSys Vario for high performance applications

Function	Mounting	Fixing	Model 1	Model 2	Model 3	Model 4
Main switch disconnecter	Door mounting	Ø 22.5 fixing	-	-	-	-
		4 screw fixing	VBF3	VBF4	VBF5	VBF6
Switch disconnecter Emergency stop	Mounting at back of enclosure	Ø 22.5 fixing	-	-	-	-
		4 screw fixing	VCCF3	VCCF4	VCCF5	VCCF6
	Door mounting	Ø 22.5 fixing	-	-	-	-
		4 screw fixing	VCF3	VCF4	VCF5	VCF6
		Thermal current I _{th} (A)	63	80	125	175



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 I _{th} (A)		25	32	50	125

Altistart soft starters

Altivar variable speed drives

4



Altistart 01 soft starters for 0.37 to 15 kW/0.5 to 20 HP motors



1 Altistart 01 soft starters 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 I_{cL} (A) (3)		3	6	9	12	15	20	25		
Dimensions: W x D x H (mm)		22.5 x 100.4 x 100				45 x 130.7 x 124				
Reference		ATS01N103FT	ATS01N106FT	ATS01N109FT	ATS01N112FT	ATS01N125FT				

2 Altistart 01 soft start/soft stop units for 0.75 to 15 kW motors (4) and 3-phase supply voltage 220...240 V 50/60 Hz (5)

Power for 3-phase motor 220...240 V 50/60 Hz (kW) (2)	0.75/1.1	1.5	2.2/3	4/5.5	7.5
Power in HP (2)	1/1.5	2	3/-	5/7.5	10
Nominal current I_{cL} (A) (3)	6	9	12	22	32
Dimensions: W x D x H (mm)	45 x 130.7 x 124			45 x 130.7 x 154	
Reference	ATS01N206LU	ATS01N209LU	ATS01N212LU	ATS01N222LU	ATS01N232LU

Altistart 01 soft start/soft stop units for 0.75 to 15 kW motors (4) and 3-phase supply voltage 380...415 V 50/60 Hz (5)

Power for 3-phase motor 380...415 V 50/60 Hz (kW) (2)	1.5/2.2/3	4	5.5	7.5/11	15
Power in HP (2)	–	–	–	–	–
Nominal current I_{cL} (A) (3)	6	9	12	22	32
Dimensions: W x D x H (mm)	45 x 130.7 x 124			45 x 130.7 x 154	
Reference	ATS01N206QN	ATS01N209QN	ATS01N212QN	ATS01N222QN	ATS01N232QN

Altistart 01 start/soft stop units for 0.75 to 15 kW motors (4) and 3-phase supply voltage 440...480 V 50/60 Hz (5)

Power for 3-phase motor 440...480 V 50/60 Hz (kW) (2)	–	–	–	–	–
Power in HP (2)	2/3	5	7.5	10/15	20
Nominal current I_{cL} (A) (3)	6	9	12	22	32
Dimensions: W x D x H (mm)	45 x 130.7 x 124			45 x 130.7 x 154	
Reference	ATS01N206RT	ATS01N209RT	ATS01N212RT	ATS01N222RT	ATS01N232RT

(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) I_{cL} corresponds to the starter rating. (4) Control power supply built into the starter.

(5) Number of possible start-stops/hour: 100 for starting time of 1 s maximum, 20 for starting time of 5 s maximum, 10 for starting time of 10 s maximum.

Altistart 22 soft starters for 3 to 500 HP motors



Altistart 22 soft start/soft stop units for 3-phase power supply voltage 208...600 V and 110 V control power supply Connection in the motor power supply line

Motor power in HP	208 V	3	7.5	–	15	20	25	30	40
	230 V	5	10	15	20	25	30	40	50
	460 V	10	10	30	40	50	60	75	100
	575 V	15	25	40	50	60	75	100	125
Nominal current I_{cL} (A) (3)		17	32	47	62	75	88	110	140
Number of starts/hour	Without fan	6	6	6	6	6	6	4	4
	With fan (6)	10	10	10	10	10	10	10	10
Dimensions: W x D x H (mm)		130 x 265 x 169			145 x 295 x 207			150 x 356 x 229	
Reference		ATS22D17S6U	ATS22D32S6U	ATS22D47S6U	ATS22D62S6U	ATS22D75S6U	ATS22D88S6U	ATS22C11S6U	ATS22C14S6U

Motor power in HP	208 V	50	60	75	100	125	150	–	–
	230 V	60	75	100	125	150	–	200	–
	460 V	125	150	200	250	300	350	400	–
	575 V	150	200	250	300	350	400	500	–
Nominal current I_{cL} (A) (3)		170	210	250	320	410	480	590	–
Number of starts/hour	Without fan	4	–	–	–	–	–	–	–
	With fan (6)	10	4	4	4	4	4	4	–
Dimensions: W x D x H (mm)		206 X 425 X 299	206 X 425 X 299		304 x 455 x 340		304 x 455 x 340		
Reference		ATS22C17S6U	ATS22C21S6U	ATS22C25S6U	ATS22C32S6U	ATS22C41S6U	ATS22C48S6U	ATS22C59S6U	

Note: All values given for Altistart 22 starters are defined for 3.5 x I_n and 20s starting time, with motors with thermal protection class 10. These values are for an ambient temperature of 40 °C. (3) I_{cL} corresponds to the starter rating. (6) All soft starters from motor power 75 HP to 200 HP (ATS22C21.. to ATS22C59..) are equipped with a fan as standard.

Altistart 22 soft starters for 4 to 500 kW motors



1 Altistart 22 soft start/soft stop 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	
Motor power in kW (motor delta connection) (1)	230 V	5.5	11	18.5	22	30	37	45	55	
	400 V	11	22	45	55	55	75	90	110	
	440 V	15	22	45	55	75	75	90	110	
Nominal current I _{cL} (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	
Dimensions: W x D x H (mm)		130 x 265 x 169				145 x 295 x 207			150 x 356 x 229	
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
Motor power in kW (motor delta connection) (1)	230 V	75	90	110	132	160	220	250
	400 V	132	160	220	250	315	355	400
	440 V	132	160	220	250	355	400	500
Nominal current I _{cL} (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
Dimensions: W x D x H (mm)		150 x 356 x 229	206 X 425 X 299			304 x 455 x 340		
Reference		ATS22C17Q	ATS22C21Q	ATS22C25Q	ATS22C32Q	ATS22C41Q	ATS22C48Q	ATS22C59Q

2 Altistart 22 soft start/soft stop 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 I _{cL} (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	4	
Dimensions: W x D x H (mm)		130 x 265 x 169				145 x 295 x 207			150 x 356 x 229	
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 I _{cL} (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	
Dimensions: W x D x H (mm)		206 X 425 X 299	206 X 425 X 299			304 x 455 x 340		304 x 455 x 340	
Reference		ATS22C17S6	ATS22C21S6	ATS22C25S6	ATS22C32S6	ATS22C41S6	ATS22C48S6	ATS22C59S6	

Note: All values given for Altistart 22 starters are defined for 3.5 x I_n and 20s 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 I_{cL}.

(2) I_{cL} 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.schneider-electric.com

Altivar 12 ultra-compact variable speed drives for simple machines



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) (6)	ATV12 H037M2 (6)	ATV12 H055M2 (6)	ATV12 H075M2 (6)	ATV12 HU15M2 (7)	ATV12 HU22M2 (7)	



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	



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.schneider-electric.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 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.schneider-electric.com.

Altivar Machine ATV320 variable speed drives for simple and advanced machines



ATV320 drives with compact control block and single-phase supply voltage 200...240 V 50/60 Hz (1) (2)

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 (3)	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm) (4)		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 (1) (2)

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 (3)	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm) (4)		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



ATV320 drives with book control block and single-phase supply voltage 200...240 V 50/60 Hz (1) (2)

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 (3)	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm) (5)		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 (1) (2)

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 (3)	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm) (5)		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 (3)	14.3	17	27.7	33
Dimensions: W x H x D (mm) (5)		150 x 232 x 232		180 x 330 x 232	
Reference		ATV320 U55N4B	ATV320 U75N4B	ATV320 D11N4B	ATV320 D15N4B

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.schneider-electric.com.

(1) Altivar Machine ATV320 variable speed drives are compliant with Machinery Directive 2006/42/EC. Compliant safety functions are Safe Torque Off (STO), Safe Stop 1 (SS1), Safe Limited Speed (SLS), Safe Maximum Speed (SMS), and Guard Door Lock (GDL).

(2) Altivar Machine ATV320 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.schneider-electric.com.

(3) Altivar Machine ATV320 variable speed drives can supply transient output current of 1.5 x In for 60 s for every 10 min. cycle.

(4) For ATV320 drives with compact control block and ATV320 drives with book control > 5.5 kW, EMC plate (or UL type 1 kit) dimensions are not applicable.

(5) For ATV320 drives with book control ≤ 4kW, EMC plate dimensions are applicable.

For more information, please refer to the "Variable speed drives - Altivar Machine ATV320" catalog on our website www.schneider-electric.com.

Communication modules and accessories for ATV320 variable speed drives



Communication buses and networks			
Type of communication module (1)	CANopen daisy chain (2) (3) (4)	CANopen SUB-D9 (2) (3) (4)	CANopen open style (2) (3) (4)
Compatibility	All Altivar Machine ATV320 variable speed drives		
Type of ports	2 RJ45 connectors	1 x 9-way male SUB-D connector	1 x 5-way screw terminal block
Reference	VW3A3608	VW3A3618	VW3A3628

Type of communication module (1)	Modbus TCP and Ethernet/IP network module (3)	PROFIBUS DP V1 communication module (3)	DeviceNet communication module (3)
Compatibility	All Altivar Machine ATV320 variable speed drives		
Type of ports	2 RJ45 connectors	1 x 9-way female SUB-D connector	1 removable 5-way screw connector
Reference	VW3A3616	VW3A3607	VW3A3609

Type of communication module (1)	EtherCat communication module (3)	ProfiNet communication module (3)
Compatibility	All Altivar Machine ATV320 variable speed drives	
Type of ports	2 RJ45 connectors	
Reference	VW3A3601	VW3A3627



Accessories			
Type of accessory	Communication adapter module (1)		
Compatibility	All Altivar Machine ATV320 variable speed drives with compact control block		
Reference (3)	VW3A3600		
Type of accessory	Simple Loader configuration tool (5)	Multi-Loader configuration tool (5)	USB/RJ45 cable for PC-drive connection
Compatibility	All Altivar Machine ATV320 variable speed drives		
Reference	VW3A8120	VW3A8121	TCSMCNAM3M002P

- (1) Altivar Machine ATV320 products with a compact control block require the VW3A3600 option adapter module in order to use any optional communication module.
 (2) 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.
 (3) The Altivar Machine ATV320 drive can only take one communication module.
 (4) When one of the CANopen communication modules is inserted in the Altivar Machine ATV320 drive, CANopen communication via the RJ45 communication port is disabled.
 (5) For more information about this tool, please refer to the product datasheet on our website www.schneider-electric.com.

Zelio automation relays



Zelio Logic smart relays



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
Number of discrete inputs		8	12	12	6	8	12
Number of outputs		4 relay	8 relay	8 relay	4 relay	8 relay	8 relay
Clock		Yes	Yes	No	No	Yes	No
Compact smart relays	With display	SR2B121B	SR2B201B	SR2A201E	SR2A101FU (1)	SR2B121FU	SR2A201FU (1)
	Without display (1)	SR2E121B	SR2E201B	–	SR2D101FU (1)	SR2E121FU	SR2D201FU (1)
Compact discovery packs (2)		–	–	–	–	SR2PACKFU	–

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

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	26
Number of discrete inputs		6	16	6	16	16	16
including 0-10 V analog inputs		–	–	–	–	6	6
Number of outputs		4 relay	10 relay	4 relay	10 relay	10 relay	4
Clock		Yes	Yes	Yes	Yes	Yes	Yes
Modular smart relays (2)		SR3B101B	SR3B261B	SR3B101FU	SR3B261FU	SR3B261JD	SR3B10●BD (5)
Modular discovery packs (2)		–	–	SR3PACKFU	SR3PACK2FU	–	SR3PACKBD



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 Logic Alarm software and modems

Type of device	Zelio Logic Alarm management software	Modem (7)
Supply voltage	–	12...24 VDC
Description	–	GSM/2G Modem
References	SR2SFT02	SR2MOD02

Zelio Soft 2 software and accessories

Type of device	Zelio Soft multilingual programming software (6)	Connecting cables		Wireless connection	Back-up memory
Description	PC CD-ROM (8)	Serial PC/Smart relay	USB PC/Smart relay	Bluetooth interface	EEPROM
References	SR2SFT01	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, one SR2SFT01 Zelio soft 2 software, and one SR2USB01 connecting cable.
- (3) Replace the ● with the number 1 to order a smart relay with relay output or with 2 for a smart relay with transistor output (Example: 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 with 2 for a smart relay with transistor output (Example: SR3B101BD).
- (6) The power supply of the extension modules is provided via the Zelio Logic modular relays.
- (7) Must be used in conjunction with communication interface SR2COM01.
- (8) CD-ROM (Windows 7 - 32 and 64 bits, Windows 8.1 - 32 and 64 bits, Windows 10) including Zelio Soft programming software, an application library, a self-training manual, installation instructions, and a user's manual.



Zelio Relay RXG and RSL 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	RXG15RD	RXG13RD	RXG25RD	RXG23RD	RXG11RD	RXG12RD	RXG21RD	RXG22RD
	12 VDC	RXG15JD	RXG13JD	RXG25JD	RXG23JD	RXG11JD	RXG12JD	RXG21JD	RXG22JD
	24 VDC	RXG15BD	RXG13BD	RXG25BD	RXG23BD	RXG11BD	RXG12BD	RXG21BD	RXG22BD
	48 VDC	RXG15ED	RXG13ED	RXG25ED	RXG23ED	RXG11ED	RXG12ED	RXG21ED	RXG22ED
	60 VDC	RXG15ND	RXG13ND	RXG25ND	RXG23ND	RXG11ND	RXG12ND	RXG21ND	RXG22ND
	110 VDC	RXG15FD	RXG13FD	RXG25FD	RXG23FD	RXG11FD	RXG12FD	RXG21FD	RXG22FD
	24 VAC	RXG15B7	RXG13B7	RXG25B7	RXG23B7	RXG11B7	RXG12B7	RXG21B7	RXG22B7
	48 VAC	RXG15E7	RXG13E7	RXG25E7	RXG23E7	RXG11E7	RXG12E7	RXG21E7	RXG22E7
	120 VAC	RXG15F7	RXG13F7	RXG25F7	RXG23F7	RXG11F7	RXG12F7	RXG21F7	RXG22F7
	220 VAC	RXG15M7	RXG13M7	RXG25M7	RXG23M7	RXG11M7	RXG12M7	RXG21M7	RXG22M7
	230 VAC	RXG15P7	RXG13P7	RXG25P7	RXG23P7	RXG11P7	RXG12P7	RXG21P7	RXG22P7
Screw connector socket		RGZE1S35M		RGZE1S48M		RGZE1S35M		RGZE1S48M	

5



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

Zelio Relay RXM, RPM, and RPF electromechanical relays



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	RXM3AB2ED	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		

(1) With mixed contacts (2) With separate contacts



1 RPM power relays (15 A)

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	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	RPM12FD	RPM21FD	RPM22FD	RPM31FD	RPM32FD	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		

2 RPF power relays (30 A)

RPF relays without test button									
Contact	2 NO		2 CO		Contact	2 NO		2 CO	
Current	30 A		30 A on NO/3 A on NC		Current	30 A		30 A on NO/3 A on NC	
Connection	Flat pins (Faston type)				Connection	Flat pins (Faston type)			
LED display	Without LED				LED display	Without LED			
Complete product	12 VDC	RPF2AJD	RPF2BJD		Complete product	24 VAC	RPF2AB7	RPF2BB7	
	24 VDC	RPF2ABD	RPF2BBD			120 VAC	RPF2AF7	RPF2BF7	
	110 VDC	RPF2AFD	RPF2BFD			230 VAC	RPF2AP7	RPF2BP7	

Zelio Relay SSL solid state relays



SSL1 slim interface solid state relays (DC switching)

Type		SSL1 relays (6 mm)		Screw connector sockets	Spring terminal sockets
Contact		1 NO		–	–
Switching type		DC switching		–	–
Load current		0.1 A	3.5 A	–	–
Load voltage		1...48 VDC	1...24 VDC	–	–
Complete product	3...12 VDC	SSL1D101JD	SSL1D03JD	SSLZVA1	SSLZRA1
	24 VDC	SSL1D101BD	SSL1D03BD	SSLZVA1	SSLZRA1
	60 VDC	SSL1D101ND	SSL1D03ND	SSLZVA2	SSLZRA2

SSL1 slim interface solid state relays (random switching)

Type		SSL1 relays (6 mm)		Screw connector sockets	Spring terminal sockets
Contact		1 NO		–	–
Switching type		Random switching		–	–
Load current		2 A		–	–
Load voltage		24...280 VAC		–	–
Complete product	3...12 VDC	SSL1A12JDR		SSLZVA1	SSLZRA1
	24 VDC	SSL1A12BDR		SSLZVA1	SSLZRA1
	60 VDC	SSL1A12NDR		SSLZVA2	SSLZRA2
	110 VAC/VDC	SSL1A12NDR		SSLZVA3	SSLZRA3
	230 VAC/VDC	SSL1A12NDR		SSLZVA4	SSLZRA4

SSL1 slim interface solid state relays (zero voltage switching)

Type		SSL1 relays (6 mm)		Screw connector sockets	Spring terminal sockets
Contact		1 NO		–	–
Switching type		Zero voltage switching		–	–
Load current		2 A		–	–
Load voltage		24...280 VAC		–	–
Complete product	3...12 VDC	SSL1A12JD		SSLZVA1	SSLZRA1
	24 VDC	SSL1A12BD		SSLZVA1	SSLZRA1
	60 VDC	SSL1A12ND		SSLZVA2	SSLZRA2
	110 VAC/VDC	SSL1A12ND		SSLZVA3	SSLZRA3
	230 VAC/VDC	SSL1A12ND		SSLZVA4	SSLZRA4

Zelio Relay SSM and SSP solid state relays



1 SSM modular DIN rail solid state relays (DC switching)

Contact	1 NO				
Switching type	DC switching				
Load current	6 A		12 A		
Load voltage	1...60 VDC	1...100 VDC	1...60 VDC	1...100 VDC	
Frontal width	12 mm		18 mm		
Complete product	4...32 VDC	SSM1D26BD	SSM1D36BD	SSM1D212BD	SSM1D312BD

2 SSM modular DIN rail solid state relays (random switching)

Contact	1 NO				2 NO		
Switching type	Random switching						
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	
Frontal width	12 mm			18 mm			
Complete product	4...32 VDC	SSM1A16BDR	SSM1A36BDR	SSM1A112BDR	SSM1A312BDR	SSM2A16BDR	SSM2A36BDR
	18...36 VAC	SSM1A16B7R	-	SSM1A112B7R	SSM1A312B7R	-	-
	90...140 VAC	SSM1A16F7R	-	SSM1A112F7R	SSM1A312F7R	-	-
	200...265 VAC	SSM1A16P7R	-	SSM1A112P7R	SSM1A312P7R	-	-

3 SSM modular DIN rail solid state relays (zero voltage switching)

Contact	1 NO				2 NO		
Switching type	Zero voltage switching						
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	
Frontal width	12 mm			18 mm			
Complete product	4...32 VDC	SSM1A16BD	SSM1A36BD	SSM1A112BD	SSM1A312BD	SSM2A16BD	SSM2A36BD
	90...140 VAC	SSM1A16F7	-	SSM1A112F7	SSM1A312F7	-	-
	200...265 VAC	SSM1A16P7	-	SSM1A112P7	SSM1A312P7	-	-



4 SSP1 1-phase panel mount solid state relays (DC switching)

Contact	1 NO			
Switching type	DC switching			
Load current (1)	12 A	25 A	40 A	
Load voltage	3...150 VDC			
Complete product	3...12 VDC	SSP1D412BDT	SSP1D425BDT	SSP1D440BDT

5 SSP1 1-phase panel mount solid state relays (zero voltage switching)

Contact	1 NO								
Switching type	Zero voltage switching								
Load current (1)	10 A	25 A	50 A	50 A	75 A	75 A	90 A	125 A	
Load voltage	24...300 VAC	24...300 VAC	24...300 VAC	48...660 VAC	24...300 VAC	48...660 VAC	48...660 VAC	48...660 VAC	
Complete product	4...32 VDC	SSP1A110BDT	SSP1A125BDT	SSP1A150BDT	SSP1A450BDT	SSP1A175BDT	SSP1A475BDT	SSP1A490BDT	SSP1A4125BDT
	90...280 VAC	SSP1A110M7T	SSP1A125M7T	SSP1A150M7T	SSP1A450M7T	SSP1A175M7T	SSP1A475M7T	SSP1A490M7T	SSP1A4125M7T

6 SSP3 3-phase panel mount solid state relays (random and zero voltage switching)

Contact	3 NO				
Switching type	Random switching		Zero voltage switching		
Load current (1)	25 A	50 A	25 A	50 A	
Load voltage	48...530 VAC				
Complete product	4...32 VDC	SSP3A225BDRT	SSP3A250BDRT	SSP3A225BDT	SSP3A250BDT
	18...36 VAC	SSP3A225B7RT	SSP3A250B7RT	SSP3A225B7T	SSP3A250B7T
	90...140 VAC	SSP3A225F7RT	SSP3A250F7RT	SSP3A225F7T	SSP3A250F7T
	180...280 VAC	SSP3A225P7RT	SSP3A250P7RT	SSP3A225P7T	SSP3A250P7T

(1) Please use correct heatsink for desired load current: see performance curves in product datasheets available on our website www.schneider-electric.com for selection.

Zelio Control RM17, RM22, and RM35 control relays



1 3-phase monitoring relays for DIN rail mounting

Phase loss and sequence	Yes						
Asymmetry	–	Yes	–	Yes	–	–	–
Undervoltage	–	–	–	Yes	–	–	–
> U > window mode	–	–	–	–	–	Yes	–
Measuring range	183...528 VAC	183...484 VAC	183...528 VAC	183...528 VAC	160...288 VAC	183...528 VAC	304...576 VAC
Output contacts/Current	1 CO/5 A	2 CO/5 A	1 CO/5 A		2 CO/8 A	1 CO/5 A	2 CO/8 A
Power supply	Self-powered						
Frontal width	17.5 mm				22.5 mm	17.5 mm	22.5 mm
Complete product	RM17TG00	RM17TG20	RM17TA00	RM17TU00	RM22TU21	RM17TE00	RM22TR33

2 3-phase voltage monitoring relays for DIN rail mounting

Detected loss of one or more phases	Yes		
Absence of neutral	–	Yes	–
Overvoltage and undervoltage	Yes		
Measuring range	183...528 VAC	114...329 VAC	194...528 VAC
Output contacts/Current	1 CO/5 A	1 CO/5A for > U threshold + 1 CO/5A for < U threshold	
Power supply	Self-powered		
Frontal width	17.5 mm	35 mm	
Complete product	RM17UB310	RM35UB3N30	RM35UB330

3 Phase or DC voltage monitoring relays for DIN rail mounting

> U > window mode	Yes						
Overvoltage	Yes						–
Undervoltage	Yes						–
Measuring range	20...80 VAC/VDC	65...260 VAC/VDC	0.05...5 VAC/VDC	1...100 VAC/VDC	15...500 VAC/VDC	15...500 VAC/VDC	80...300 VAC/VDC
Output contacts/Current	1 CO/5 A			2 CO/8 A			
Power supply	Self-powered			24...240 VAC		380...415 VAC	110...240 VAC
Frontal width	17.5 mm			22.5 mm			
Complete product	RM17UBE15	RM17UBE16	RM22UA31MR	RM22UA32MR	RM22UA33MR	RM22UA33MT	RM22UB34

5



4 Current monitoring relays for DIN rail mounting

Monitoring characteristics	Overcurrent	> I > window mode with/without memory					
Integrated current transformer	Yes	–					
Measuring range	2...20 A	4...1,000 mA	2...500 mA	0.15...15 A			
Output contacts/Current	1 CO/5 A	2 CO/8 A	2 CO/5 A		2 CO/8 A		
Power supply	24...240 VAC/VDC		24...240 VAC/VDC			380...415 VAC	
Frontal width	17.5 mm	22.5 mm	35 mm				
Complete product	RM17JC00MW	RM22JA31MR	RM35JA31MW	RM35JA32MW	RM35JA32MR	RM35JA32MT	

5 Level monitoring relays for DIN rail mounting

Level monitoring by	Resistive probe					Discrete sensor
Measuring range	5...100 kΩ		25 Ω...1 MΩ			–
Output contacts/Current	1 CO/8 A		2 CO/8 A		2 CO/5 A	1 CO/5 A
Power supply	24...240 VAC/VDC	380...415 VAC	24...240 VAC/VDC	380...415 VAC	24...240 VAC/VDC	24...240 VAC/VDC
Frontal width	22.5 mm					35 mm
Complete product	RM22LG11MR	RM22LG11MT	RM22LA32MR	RM22LA32MT	RM35LM33MW	RM35LV14MW

Note: Please consult our general catalog for other application relays available for motor temperature monitoring and pump, frequency, speed, or temperature control.

Zelio 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	RE17LAMW	RE17RAMU	RE17RLMU	RE17RCMU	RE17RMMW (2)	RE17RMMXU
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 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
Screw connector socket (3)	RXZE2S108M		RXZE2S114M			
4 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	D: symmetrical flashing relay (starting pulse-off)	L: asymmetrical flashing relay (starting pulse-off)
Ac: on-delay & off-delay relay (5)	Di: symmetrical flashing relay (starting pulse-on)	Li: symmetrical flashing relay (starting pulse-on)
Act: on-delay & off-delay relay (5) (6)	Dit: symmetrical flashing relay (starting pulse-on) (6)	Lt: symmetrical flashing relay (6)
Ad: pulse delayed relay (5)	Diw: symmetrical flashing relay (starting pulse-on) with retrigger/restart control signal	N: safeguard relay O: delayed safeguard relay
Ah: pulse delayed relay (single cycle) (5)	Dt: symmetrical flashing relay (starting pulse-off) (6)	P: pulse delayed relay with fixed pulse length
Ak: asymmetrical on-delay & off-delay relay (5)	Dw: symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal	Pt: pulse delayed relay with fixed pulse length (6)
Akt: asymmetrical on-delay & off-delay relay (5) (6)	H: interval relay	Qc: star-delta timing relay, 1CO output
At: power on-delay relay (6)	He: pulse on de-energization relay	Qe: star-delta timing relay, 1 NC + 1 NO output & split common
Aw: power on-delay relay with retrigger/restart control signal	Ht: interval relay (6)	Qg: star-delta timing relay, 2 CO outputs & same common
A1: power on-delay relay (R1 instantaneous, R2 timed)	Hw: interval relay with retrigger/restart control signal	Qgt: star-delta timing relay, 2 CO outputs & same common (6)
A2: power on-delay relay (both R1/R2 timed)	H1: interval relay (R1 instantaneous, R2 timed)	Qt: star-delta timing relay, 2 CO outputs & split common
B: interval relay (5)	H2: interval relay (both R1/R2 timed)	Qtt: star-delta timing relay, 2 CO outputs & split common (6)
Bw: double interval relay (5)	K: delay on de-energization relay (without auxiliary supply)	Tt: retriggerable bistable relay with control signal on
C: off-delay relay (5)		W: interval relay with control signal off
Ct: off-delay relay (6)		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.schneider-electric.com.

(2) For spring terminal version, order RE17RMMWS

(3) With separate contacts

(4) With mixed contacts

(5) With control signal

(6) With pause-summation control signal

Phaseo power supplies and transformers



Phaseo power supplies



Regulated switch mode power supplies 60 to 240 W for mounting on panel

Input voltage		100...240 V ~ and 120...370 V ⎓ (1)	
Connection to worldwide line supplies	United States	120 V in phase-to-neutral	Single-phase (N-L1) or 2-phase (L1-L2) connection
		240 V in phase-to-phase	Single-phase (N-L1) or 2-phase (L1-L2) connection
	Europe	230 V in phase-to-neutral	Single-phase (N-L1) connection
		400 V in phase-to-phase	–
	United States	277 V in phase-to-neutral	Single-phase (N-L1) connection
		480 V in phase-to-phase	–
Certifications (2)		CE marking, UL (508), CSA (60950-1), EAC, RCM, TÜV, KC	
Output voltage		24 V ⎓	
Reference (according to output current)	2.5 A	ABL1REM24025	
	4.2 A	ABL1REM24042	
	6.2 A	ABL1REM24062	
	10 A	ABL1REM24100	



Regulated switch mode power supplies 7 to 144 W for mounting on rail

Power		7 to 60 W	60 to 144 W	
Input voltage		100...240 V ~ and 120...250 V ⎓		
Connection to worldwide line supplies	United States	120 V in phase-to-neutral	Single-phase (N-L1) or 2-phase (L1-L2) connection	
		240 V in phase-to-phase	Single-phase (N-L1) or 2-phase (L1-L2) connection	
	Europe	230 V in phase-to-neutral	Single-phase (N-L1) connection	
		400 V in phase-to-phase	Single-phase (N-L1) connection	
	United States	277 V in phase-to-neutral	–	
		480 V in phase-to-phase	–	
Certifications (2)		CE marking, UL (508), CSA (60950-1), EAC, RCM, TÜV, KC		
Output voltage		12 V ⎓	24 V ⎓	
Reference (according to output current)	0.3 A	–	ABL8MEM24003	–
	0.6 A	–	ABL8MEM24006	–
	1.2 A	–	ABL8MEM24012	–
	2 A	ABL8MEM12020	–	–
	2.5 A	–	ABL7RM24025	–
	3 A	–	–	ABL8REM24030
	5 A	–	–	ABL8REM24050

(1) Voltage/frequency of input is not indicated on the product.

(2) Please consult detail on certifications for each reference in the individual data sheet available on our website www.schneider-electric.com.

Phaseo power supplies (continued)



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 ~ (1)		380...500 V ~
Connection to worldwide line supplies	United States	120 V in phase-to-neutral	Single-phase (N-L1) or 2-phase (L1-L2) connection	–
		240 V in phase-to-phase	Single-phase (N-L1) or 2-phase (L1-L2) connection	–
	Europe	230 V in phase-to-neutral	Single-phase (N-L1) or 2-phase (L1-L2) connection	3-phase (L1-L2-L3) connection
		400 V in phase-to-phase	Single-phase (N-L1) or 2-phase (L1-L2) connection	3-phase (L1-L2-L3) connection
	United States	277 V in phase-to-neutral	Single-phase (N-L1) or 2-phase (L1-L2) connection	3-phase (L1-L2-L3) connection
		480 V in phase-to-phase	Single-phase (N-L1) or 2-phase (L1-L2) connection	3-phase (L1-L2-L3) connection
Certifications (2)		CE marking, UL (508), CSA (60950-1), CB Scheme, EAC, RCM, TÜV, KC		
Compatibility		With function modules	Yes with all Phaseo function modules (3)	
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	



Function modules for continuity of service (only compatible with ABL8RP/ABL8WP power supplies)

Type of function		Battery modules (4) (5)	Solutions to microbreaks and power outages (5)	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 Phaseo power supplies	
Output voltage		24 V ~		
Reference (according to output current)	3 Ah	ABL8BPK24A03	–	–
	7 Ah	ABL8BPK24A07	–	–
	12 Ah	ABL8BPK24A12	–	–
	20 A	–	ABL8BBU24200	–
	40 A	–	ABL8BBU24400	ABL8RED24400

(1) Except ABL8RPM24200: 100...240 V and 200...240 V ~.

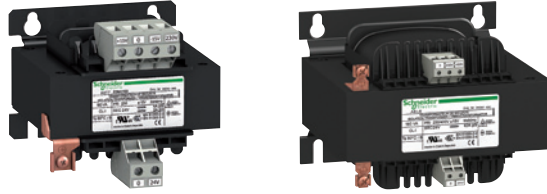
(2) Please consult detail on certifications for each reference in the individual data sheet available on our website www.schneider-electric.com.

(3) Compatible modules: buffer module, batteries and battery control modules, redundancy module, and discriminating downstream protection module. For more information, see the Phaseo catalog on our website www.schneider-electric.com.

(4) Supplied with 20 or 30 A fuse, depending on the model.

(5) Holding time depending on the load. Please refer to table of compatibility of battery module with holding time in the Phaseo catalog on our website www.schneider-electric.com.

Phaseo transformers



Single winding transformers				
Operating temperature			40° C	50° C
Input voltage			230 V ~	230 V ~ and 400 V ~
Connection to worldwide line supplies	United States	120 V in phase-to-neutral	–	–
		240 V in phase-to-phase	–	2-phase (L1-L2) connection
	Europe	230 V in phase-to-neutral	Single-phase (N-L1) connection	Single-phase (N-L1) connection
		400 V in phase-to-phase	–	2-phase (L1-L2) connection
Applications			SELV transformer (1)	SELV transformer (1) Isolation transformer
Certifications (2)			CE marking, EAC	CEus, CE marking, UL (506), EAC
Output voltage			24 V ~	230 V ~
Reference (according to nominal power)	25 VA	–	ABL6TS02B	–
	40 VA	ABT7ESM004B	ABL6TS04B	ABL6TS04U
	63 VA	ABT7ESM006B	ABL6TS06B	ABL6TS06U
	100 VA	ABT7ESM010B	ABL6TS10B	ABL6TS10U
	160 VA	ABT7ESM016B	ABL6TS16B	ABL6TS16U
	250 VA	ABT7ESM025B	ABL6TS25B	ABL6TS25U
	400 VA	–	ABL6TS40B	ABL6TS40U
	630 VA	–	ABL6TS63B	ABL6TS63U
	1,000 VA	–	ABL6TS100B	ABL6TS100U
	1,600 VA	–	–	ABL6TS160U
	2,500 VA	–	–	ABL6TS250U

(1) SELV = Safety Extra Low Voltage.

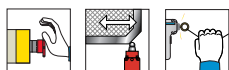
(2) Please consult detail on certifications for each reference in the individual data sheet available on our website www.schneider-electric.com.

Note: Please consult the Phaseo catalog on our website www.schneider-electric.com for a wider choice of power supplies or transformers.

Preventa safety modules and modular safety controllers



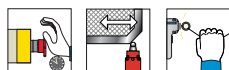
Preventa safety modules



Function: Emergency stop, switch monitoring, and protective guard applications

Preventa safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 0

Terminal type		Captive screw clamp terminal				Spring clamp terminal
Connections		Integrated in module		Removable from module		
Number of instantaneous safety circuits		3 NO	3 NO	3 NO	3 NO	3 NO
Number of additional outputs		–	1 solid-state	–	1 solid-state	1 NC
Reference	24 VAC/VDC	XPSAF5130	XPSAC5121	XPSAF5130P	XPSAC5121P	–
		–	–	–	–	XPSAXE5120P
		–	–	–	–	–
	48 VAC	–	XPSAC1321	–	XPSAC1321P	–
	115 VAC	–	XPSAC3421	–	XPSAC3421P	–
230 VAC	–	XPSAC3721	–	XPSAC3721P	–	
						XPSAXE5120C



Preventa safety modules conforming to Cat. 4, PL e, SIL3 or Cat. 3, PL d, SIL2 (1), and STOP category 1

Terminal type		Captive screw clamp terminal					
Connections		Integrated in module		Removable from module			
Number of instantaneous safety circuits		2 NO	3 NO (3)	2 NO	3 NO		
Number of delayed safety circuits		3 NO	3 NO	1 NO	3 NO		
Number of additional outputs		4 solid-state	3 solid-state	–	1 NC		
Reference (according to voltage and time-delay setting range)	24 VAC/VDC	0...30 s	XPSATE5110	–	–	XPSATE5110P	
		24 VDC	0...300 s	–	XPSAV11113	–	–
			0...300 s (2)	–	XPSAV11113T050	–	–
		0.1...2 s	–	XPSAV11113Z002	–	–	–
		0.1...3 s	–	–	–	XPSATR1153P	–
		0.1...30 s	–	–	–	XPSATR11530P	–
	115 VAC	0.1...30 s	–	–	XPSABV1133P	–	–
		–	–	–	XPSABV11330P	–	–
	115/230 VAC	0.1...30 s	XPSATE3410	–	–	–	XPSATE3410P
		0.1...30 s	–	–	–	XPSATR3953P	–
	230 VAC	0.1...30 s	–	–	–	XPSATR39530P	–
		0...30 s	XPSATE3710	–	–	–	XPSATE3710P



Preventa safety modules conforming to Cat. 4, PL e, SIL3 or Cat. 3, PL d, SIL2 (1), and STOP category 1 (continued)

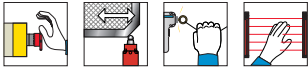
Terminal type		Spring clamp terminal		
Connections		Removable from module		
Number of instantaneous safety circuits		2 NO	3 NO	
Number of delayed safety circuits		3 NO	3 NO	
Number of additional outputs		–	1 NC	
Reference (according to voltage and time-delay setting range)	24 VDC	0.1...3 s	–	XPSATR1153C
		0.15...3 s	XPSABV1133C	–
		1.5...30 s	XPSABV11330C	–
	115/230 VAC	0.1...30 s	–	XPSATR11530C
		0.1...3 s	–	XPSATR3953C
		0.1...30 s	–	XPSATR39530C

(1) Cat. 4, PL e, SIL3 if direct opening contacts and Cat. 3, PL d, SIL2 if time-delayed opening (except for XPSAV safety modules).

(2) Start delay: 0.5 s.

(3) XPSAV modules reach Cat. 4, PL e, SIL3 both with direct opening and with time-delayed opening contacts.

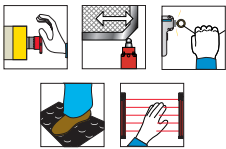
Preventa safety modules



Function: Emergency stop, switch monitoring, and safety light curtain monitoring

Preventa 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 circuits	3 NO	7 NO	3 NO	7 NO
Number of additional outputs	With relay	2 NC	–	2 NC
	Solid-state	4	–	4
Reference	24 VAC/VDC	XPSAFL5130	–	XPSAFL5130P
	–	–	XPSAR311144	–
	115 VAC	–	XPSAR351144	–
	230 VAC	–	XPSAR371144	–



Function: Emergency stop, switch monitoring, sensing mat/edges, and safety light curtain monitoring

Preventa 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 circuits	3 NO		3 NO
Number of additional outputs	4 solid-state + 1 NC		4 solid-state + 1 NC
Reference	24 VAC/VDC	XPSAK311144	XPSAK311144P
	48 VAC	–	XPSAK331144P
	110 VAC	XPSAK361144	XPSAK361144P
	120 VAC	XPSAK351144	XPSAK351144P
	230 VAC	XPSAK371144	XPSAK371144P



Function: Enabling switch monitoring

Preventa 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 circuits	2 NO	
Number of additional outputs	2 NO	
Reference	24 VDC	XPSVC1132
		XPSVC1132P

Preventa safety modules



Function: Electric monitoring of two-hand control stations

Preventa safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 0

Terminal type	Captive screw clamp terminal		Spring clamp terminal	Fixed screw clamp terminal
Connections	Removable from module			
Type conforming to standard EN5074	IIIC	IIIC	IIIC	IIIC
Number of instantaneous safety circuits	2 NO	2 NO	2 NO	2 NO
Number of additional outputs	1 NC	2 solid-state	1 NC	2 solid-state
Reference	24 VDC	–	XPSBF1132P	–
	24 VAC/VDC	XPSBCE3110P	–	XPSBCE3110C
	115 VAC	XPSBCE3410P	–	XPSBCE3410C
	230 VAC	XPSBCE3710P	–	XPSBCE3710C



Preventa safety modules conforming to Cat. 1, PL c, SIL1, and 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 NC
Reference	24 VAC/VDC	XPSBAE5120P	XPSBAE5120C
	115...230 VAC/120 VAC	XPSBAE3920P	XPSBAE3920C



Function: Monitoring of photo-electric sensors

Preventa safety modules conforming to Cat. 2, PL c, SIL1, and STOP category 0

Terminal type	Captive screw clamp terminal		Spring clamp terminal
Connections	Integrated in module		Removable from module
Number of instantaneous safety circuits	2 NO		2 NO
Number of additional solid-state outputs	4		4
Reference	24 VDC	XPSCM1144	XPSCM1144P



Function: Increasing the number of safety contacts

Preventa safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 0

Terminal type	Captive screw clamp terminal		Spring clamp terminal	
Connections	Removable from module			
Number of instantaneous safety circuits	4 NO	8 NO	4 NO	8 NO
Number of additional outputs	2 NC	1 NC	2 NC	1 NC
Reference	24 VAC/VDC	XPSECME5131P	XPSECME5131C	–
		–	XPSECPE5131P	–
	115...230 VAC/230 VAC	–	XPSECPE3910P	–
			–	XPSECPE3910C

Preventa safety modules



Function: Monitoring of applications requiring safety time delays

Preventa safety modules conforming to Cat. 3, PL e, SIL2, and STOP category 0

Terminal type		Captive screw clamp terminal			
Connections		Removable from module			
For applications with		Interlocking on high inertia machines		Safety switchover contact	
Number of safety circuits		1 delayed		1 pulse type	
Number of additional outputs	With relay	2 NC		2 NC	
	Solid-state	2		2	
Reference	24 VAC/VDC	XPSTSA5142P		–	
		–		XPSTSW5142P	
	115 VAC	XPSTSA3442P		–	
		–		XPSTSW3442P	
	230 VAC	XPSTSA3742P		–	
		–		XPSTSW3742P	



Function: Coded magnetic switch monitoring

Preventa 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 circuits		2 NO	2 NO	2 NO	2 NO	2 NO	
Synchronization time between inputs		< 0.5 s	< 0.5 s	< 2.2 s	< 0.5 s	< 0.5 s	
Maximum number of coded magnetic switches (Cat. 4, PL e, SIL3)		2	6	6	2	6	
Maximum number of coded magnetic switches (Cat. 3, PL d, SIL2)		12	36	36	12	9	
Number of additional solid-state outputs		2	2	2	2	2	
Reference	24 VDC	XPSDME1132		–		XPSDME1132P	
		–		XPSDME1132		–	
		–		–		XPSDME1132TS220 (1)	

7



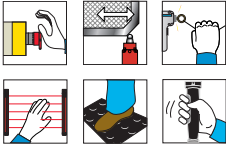
Function: Zero speed detection of motors

Preventa safety modules conforming to Cat. 3, PL d, SIL2, and STOP category 0

Terminal type		Captive screw clamp terminal				
Connections		Removable from module				
Number of safety circuits		1 NO		1 NO		
Number of additional outputs		2 solid-state + 1 NC		2 solid-state + 1 NC		
Frequency of motor power supply		≤ 60 Hz		> 60 Hz		
Reference	24 VDC	Inertia applications	XPSVNE1142P		XPSVNE1142HSP	
		High inertia applications	XPSVNE1142LFP		–	
		Low speed and high inertia applications	XPSVNE1142LSP		–	
	115 VAC	Inertia applications	XPSVNE3442P		XPSVNE3442HSP	
		High inertia applications	XPSVNE3442LFP		–	
	230 VAC	Inertia applications	XPSVNE3742P		XPSVNE3742HSP	

(1) This model has an extended synchronization time up to 2.2 s whereas the other models have a synchronization time of up to 0.5 s.

Preventa safety modules



Safety controllers with 2 pre-defined independent functions

Preventa 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 safety circuits		3 NO per function (6 NO in total)	3 NO per function (6 NO in total)
Number of additional solid-state outputs		3	3
Reference	24 VDC	XPSMP11123	XPSMP11123P



Functional safety modules with 3 NO safety circuits

Modicon TM3 functional safety modules conforming to Cat. 4, PL e, SIL3 or Cat. 3, PL d, SIL2, and STOP category 0

Connections		Terminal block for input connection			
Terminal type		Screw type		Spring type	
Maximum achievable safety level (1)		PL d/Cat. 3 SIL2 - SILCL2	PL e/Cat. 4 SIL3 - SILCL3	PL d/Cat. 3 SIL2 - SILCL2	PL e/Cat. 4 SIL3 - SILCL3
Reference 24 VDC	For emergency stops, switches, and protective guard applications 	TM3SAC5R	TM3SAF5R	TM3SAC5RG	TM3SAF5RG
	For emergency stops, switches, protective guard applications, and light curtains with solid-state outputs 	TM3SAFL5R	–	TM3SAFL5RG	–
	For emergency stops, switches, protective guard applications (2), light curtains with solid-state outputs, and sensing mats or edges 	–	TM3SAK6R	–	TM3SAK6RG

(1) PL d/Category 3 or PL e/Category 4 conforming to EN/ISO 13849-1. SIL2 or SIL3 conforming to EN/IEC 61508-1 and SILCL2 or SILCL3 conforming to EN/IEC 62061.

(2) With or without synchronization time monitoring.

Preventa modular safety controllers



Safety controller

Description	Safety controller CPUs	CPU combined with backplane expansion connector
No. and type of inputs	8 digital inputs + 2 for Start/Restart interlock	
No. and type of outputs	2 OSSD pairs + 4 test outputs + 2 status outputs	
Terminal type	Screw (1)	
Reference	XPSMCMCP0802	XPSMCMCP0802BC



Safe expansion modules

Safe expansion I/O modules

Description	Safe input expansion modules			Safe output expansion modules		
No. and type of inputs	8 digital inputs + 2 for Start/Restart interlock	8 digital inputs	16 digital inputs	12 digital inputs	2 for Start/Restart interlock	4 for Start/Restart interlock
No. and type of outputs	2 OSSD pairs + 4 test outputs + 2 status outputs	4 test outputs	4 test outputs	8 test outputs for 4-wire safety mats	2 OSSD pairs + 2 status outputs	4 OSSD pairs + 4 status outputs
Terminal type	Screw (1)					
Reference	XPSMCMX0802	XPSMCMDI0800	XPSMCMDI1600	XPSMCMDI1200MT	XPSMCMDO0002	XPSMCMDO0004



Safe relay output modules

Description	Safe relay output modules (without expansion bus connection)	Safe relay output modules (wired with the expansion bus connector)	
No. and type of inputs	1 for Start/Restart interlock	2 for Start/Restart interlock	4 for Start/Restart interlock
No. and type of 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	XPSMCMER0002	XPSMCMER0004	XPSMCMRO0004 XPSMCMRO0004DA



Safe speed monitoring modules

Description	Safe speed monitoring modules					
No. 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 (2)	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, XPSMCMX0802 becomes XPSMCMX0802G.

(2) When monitoring of only 2 proximity sensors is required, order an XPSMCMEN0200.

Preventa 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

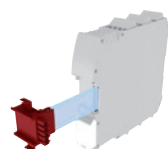


Non-Safe communication modules

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

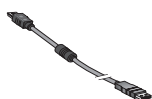
Software

Description	SoSafe configurable software V1.6
Application	To configure a logic connection between the inputs and outputs of the XPSMCMCP0802 safety controller CPU and the components of the application being developed
PC hardware requirements	RAM: 256 MB, Hard disk \geq 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.schneider-electric.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		
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		
Reference	TCSXCNAMUM3P	TSXSCMCN010	TSXSCMCN025	TSXSCMCN050

(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, XPSMCMCO0000S1 becomes XPSMCMCO0000S1G.

(2) This connector only needs to be ordered for the XPSMCMCP0802 safety controller when it is connected to expansion modules.

Universal enclosures



Spacial SDB and SBM 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				Small metal enclosures
				Without knock-outs		With knock-outs		With knock-outs
Type of cover				Low cover	High cover	Low cover	High cover	
Reference according to dimensions (H x W x D) in mm	85	85	49	NSYDBN88	–	NSYDBN88M	–	–
	105	105	49	NSYDBN1010	–	NSYDBN1010M	–	–
	155	105	61	NSYDBN1510	–	NSYDBN1510M	–	–
	155	105	88	–	NSYDAN1510	–	NSYDAN1510M	–
	206	156	83	NSYDBN2015	–	NSYDBN2015M	–	NSYDBN2015D
	206	156	122	–	NSYDAN2015	–	NSYDAN2015M	NSYDAN2015D
	256	206	93	NSYDBN2520	–	NSYDBN2520M	–	NSYDBN2520D
	256	206	140	–	NSYDAN2520	–	NSYDAN2520M	NSYDAN2520D
	307	257	116	NSYDBN3025	–	NSYDBN3025M	–	NSYDBN3025D
	307	257	174	–	–	–	–	NSYDAN3025D
	357	307	136	NSYDBN3530	–	NSYDBN3530M	–	NSYDBN3530D
	357	307	210	–	–	–	–	NSYDAN3530D



Spacial SBM steel industrial boxes

Degree of protection: IP66 (1). Mechanical protection IK10 (2). Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Type of box				Steel industrial boxes		
				Flat boxes	FL21 entry boxes	Bus 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	NSYSBMC153012	–
	150	400	80	NSYSBM15408	–	–
	150	400	120	NSYSBM154012	NSYSBMC154012	–
	200	200	80	NSYSBM20208	–	–
	200	200	120	NSYSBM202012	–	–
	200	300	80	NSYSBM20308	–	–
	200	300	120	NSYSBM203012	NSYSBMC203012	NSYSBMB203012
	200	400	80	NSYSBM20408	–	–
	200	400	120	NSYSBM204012	NSYSBMC204012	NSYSBMB204012
	200	500	80	NSYSBM20508	–	–
	200	500	120	NSYSBM205012	–	–
	200	600	80	NSYSBM20608	–	–
	200	600	120	NSYSBM206012	NSYSBMC206012	NSYSBMB206012
	200	800	120	NSYSBM208012	NSYSBMC208012	NSYSBMB208012
	300	300	120	NSYSBM303012	NSYSBMC303012	–
	300	400	120	NSYSBM304012	NSYSBMC304012	–
	300	500	120	NSYSBM305012	–	–
	300	600	120	NSYSBM306012	NSYSBMC306012	–
	300	800	120	NSYSBM308012	NSYSBMC308012	–
400	400	120	NSYSBM404012	NSYSBMC404012	–	
400	500	120	NSYSBM405012	–	–	
400	600	120	NSYSBM406012	NSYSBMC406012	–	
400	800	120	NSYSBM408012	NSYSBMC408012	–	

(1) Except for FL21 entry boxes and bus boxes: IP55

(2) Except for bus boxes: IK08

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	NSYCRN252150PP	–
	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	–	NSYS3D810P30P	
1000	600	250	NSYCRN106250P	NSYS3D10P625P	
1000	600	300	NSYCRN106300P	NSYS3D10P630P	
1000	600	400	–	NSYS3D10P640P	
1000	800	250	NSYCRN108250P	NSYS3D10P825P	
1000	800	300	NSYCRN108300P	NSYS3D10P830P	
1000	800	400	–	NSYS3D10P840P	
1000	1000	300	–	NSYS3D10P10P30P	

(1) Multi-purpose enclosures are empty enclosures meeting the majority of application requirements. The Spacial S3D offer also comprises applicative enclosures for terminals, EMC (electromagnetic compatibility), VDI (Voice/Data/Image), HMI (human-machine interface), 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 representative.

(2) For other versions without mounting plate, with glazed door (IK0P8) or double door (IP55), see the Enclosures catalog on our website www.schneider-electric.com/enclosures. In order to check the availability of this range in your country, please contact your local 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: IP65. 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	NSYLAMPORLTD



Type of lamp	Multi-fixing LED lamps and power cables (1)							
Voltage (V)	120/230 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	NSYLAML	NSYLAMLVDC	NSYLMLDD with presence detector
	Power cables	IEC			NSYLAM3MUL	NSYLAM3M	NSYLAM3MDC	NSYLAM3M
		UL	–			–	NSYLAM3MUL	NSYLAM3MDCUL



ClimaSys CV ventilation systems

Degree of protection: IP54. Color: RAL7035 light gray

Voltage (V)		230 AC	115 AC	24 DC	48 DC
Fan flow rate (m³/h)	Free with filter	38	38	58	44
	Free with 1 outlet grille	25	27	39	34
	Free with 2 outlet grilles	33	35	47	41
Reference	Fan with filter	NSYCVF38M230PF	NSYCVF38M115PF	NSYCVF38M24DPF	NSYCVF38M48DPF
	Outlet grille	NSYCAG92LPPF			

Fan flow rate (m³/h)	Free with filter	85	79	80	79
	Free with 1 outlet grille	63	65	57	59
	Free with 2 outlet grilles	71	73	77	68
Reference	Fan with filter	NSYCVF38M230PF	NSYCVF38M115PF	NSYCVF38M24DPF	NSYCVF38M48DPF
	Outlet grille	NSYCAG125LPPF			

(1) For interconnection cables, please see the Enclosures catalog on our website www.schneider-electric.com/enclosures.

ClimaSys thermal management systems



1 ClimaSys CC mechanical thermostats

Type of control	Control of a resistance heater or an alarm		Control of a fan or an alarm	
Setting range	0...+60 °C	+32...+140 °C	0...+60 °C	+32...+140 °C
Reference	NSYCCOTHC	NSYCCOTHCF	NSYCCOTHO	NSYCCOTHOF

2 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

3 ClimaSys CR aluminium resistance heaters

Power cord				
Power (W)	10		20	
Voltage (V)	12-24 DC	110-250 AC	12-24 DC	110-250 AC
Reference	NSYCR10WU1	NSYCR10WU2	NSYCR20WU1	NSYCR20WU2

Terminal block				
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

4 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

5 ClimaSys DT data loggers

Characteristics	DTT	DTMiniLog	DTH
Type of recorder	Temperature recorder	Single-use temperature recorder	Temperature, humidity, and dew point recorder
Composition	1	Set of 10 dataloggers	1
Reference	NSYDTEF32T	NSYDTEFSMT	NSYDTEF32TRH

Note: For more detailed information on our products, see the Enclosures catalog on our website www.schneider-electric.com/enclosures.

Detection components Panorama



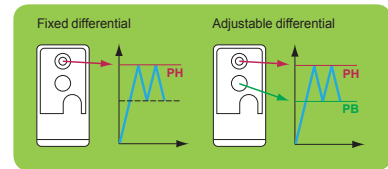
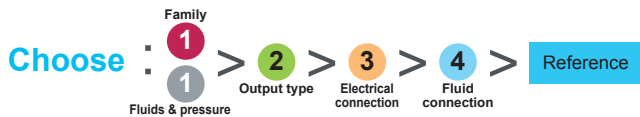
Simply easy!™



Telemecanique

Sensors

Pressure switches: OsiSense XM



XMLA / XMLB Electromechanical		Hydraulic oils, air, fresh water, sea water / Temp: up to 70°C								
Screw terminal		1 C/O single pole contact fixed differential			1 C/O single pole contact adjustable differential					
		Bar	psi	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		
G 1/4 (female)		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		
	500	7250	XMLA500D2S12	XMLA500D2S11	XMLA500D2C11	XMLB500D2S12	XMLB500D2S11	XMLB500D2C11		

XMLR Electronic + Display		Hydraulic oils, air, fresh water, refrigerant fluids									
M12 4 pin or 5 pin		-20... +80°C		Analogue output		Analogue + switching output		2 switching outputs		Analogue + 2 switching outputs	
		Bar	psi	4...20 mA	0...10 V	PNP - NO/NC programmable		PNP - NO/NC prog.		PNP - NO/NC prog.	
						4...20 mA	0...10 V			4-20 mA	
	-1	-14.5	XMLRM01G0T25	XMLRM01G0T75	XMLRM01G1P25	XMLRM01G1P75	XMLRM01G2P05	XMLRM01G2P05		XMLRM01G2P25	
	1	14.5	XMLR001G0T25	XMLR001G0T75	XMLR001G1P25	XMLR001G1P75	XMLR001G2P05	XMLR001G2P05			
	2.5	35.2	XMLR2D5G0T25	XMLR2D5G0T75	XMLR2D5G1P25	XMLR2D5G1P75	XMLR2D5G2P05	XMLR2D5G2P05			
	10	145	XMLR010G0T25	XMLR010G0T75	XMLR010G1P25	XMLR010G1P75	XMLR010G2P05	XMLR010G2P05		XMLR010G2P25	
	16	232	XMLR016G0T25	XMLR016G0T75	XMLR016G1P25	XMLR016G1P75	XMLR016G2P05	XMLR016G2P05			
	25	362	XMLR025G0T25	XMLR025G0T75	XMLR025G1P25	XMLR025G1P75	XMLR025G2P05	XMLR025G2P05			
	40	580	XMLR040G0T25	XMLR040G0T75	XMLR040G1P25	XMLR040G1P75	XMLR040G2P05	XMLR040G2P05		XMLR040G2P25	
	100	1450	XMLR100G0T25	XMLR100G0T75	XMLR100G1P25	XMLR100G1P75	XMLR100G2P05	XMLR100G2P05			
	160	2320	XMLR160G0T25	XMLR160G0T75	XMLR160G1P25	XMLR160G1P75	XMLR160G2P05	XMLR160G2P05			
	250	3625	XMLR250G0T25	XMLR250G0T75	XMLR250G1P25	XMLR250G1P75	XMLR250G2P05	XMLR250G2P05		XMLR250G2P25	
	400	5800	XMLR400G0T25	XMLR400G0T75	XMLR400G1P25	XMLR400G1P75	XMLR400G2P05	XMLR400G2P05		XMLR400G2P25	
600	8700	XMLR600G0T25	XMLR600G0T75	XMLR600G1P25	XMLR600G1P75	XMLR600G2P05	XMLR600G2P05				

XMLG/XMLP Electronic transmitter		Hydraulic oils, air, fresh water, refrigerant fluids						ZMLP Display & switch		4-20mA analogue + switching output		2 switching outputs	
M12 4 pin (male)		-15...+125°C (XMLG) -30...+120°C (XMLP)		Analogue output			M12 4 pin (male)		NO/NC Prog.		NO/NC Prog.		
		Bar	psi	4...20 mA	0...10 V	0.5...4.5 V	PNP		Window	Hysteresis	Fixed hysteresis		
	-1	-14.5	XMLGM01D21	XMLGM01D71					ZMLPA1P2SW	ZMLPA1P2SH	ZMLPA2P0SH		
	1	14.5	XMLG001D21	XMLG001D71									
	6	87	XMLG006D21	XMLG006D71									
	10	145	XMLP010BD21V	XMLP010BD71V	XMLP010BD11V								
	16	232	XMLP016BD21V	XMLP016BD71V	XMLP016BD11V								
	25	362	XMLP025BD21V	XMLP025BD71V	XMLP025BD11V								
	40	580	XMLP040BD21V	XMLP040BD71V	XMLP040BD11V								
	60	870	XMLP060BD21V	XMLP060BD71V	XMLP060BD11V								
	100	1450	XMLP100BD22	XMLP100BD72	XMLP100BD12								
	160	2320	XMLP160BD22	XMLP160BD72	XMLP160BD12								
	250	3625	XMLP250BD22	XMLP250BD72	XMLP250BD12								
400	5800	XMLP400BD22	XMLP400BD72	XMLP400BD12									
600	8700	XMLP600BD22	XMLP600BD72	XMLP600BD12									

Only usable with 4-20mA analogue output electronic transmitter (e.g.: XMLG, XMLP)

Quick fixing bracket: XMLPZLH01 (Horizontal plan), XMLPZLV01 (Vertical plan or pipe)

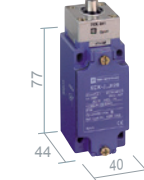
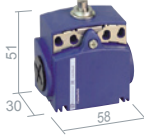
Cabling XM		Connectors (female)			PUR pre wired connectors (female)*			PUR Jumper cables				
M12		straight	elbowed	M12	straight	elbowed	elbowed PNP LED	M12 (female)	straight	elbowed		
(1)	4 pin	XZCC12FDM40B	XZCC12FCM40B	4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2	M12 (female)	straight	elbowed	
(2)	4 pin	XZCC12FDP40B	XZCC12FCP40B		5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5	M12 (male)	straight	straight	
(1)	5 pin	XZCC12FDM50B	XZCC12FCM50B		10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10	4 pin	1 m	XZCR1511041C1	XZCR1512041C1
									2 m	XZCR1511041C2	XZCR1512041C2	

(1) Steel ring (2) Plastic ring

*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Limit switches: OsiSense XC

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



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

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

XCKM Metal	NO+NC Snap	M20		XCKM110H29	XCKM102H29	XCKM121H29	XCKM115H29	XCKM106H29
		Pg11		XCKM110	XCKM102	XCKM121	XCKM115	XCKM106

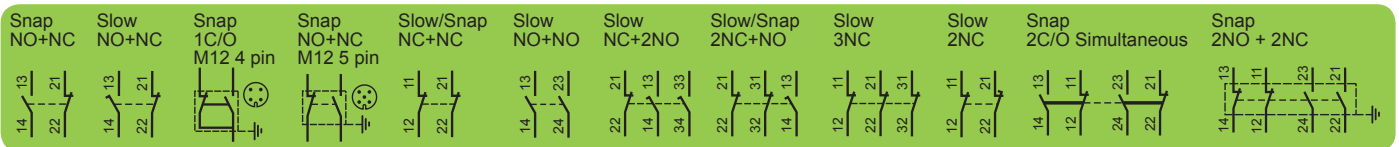
XCKL Metal	NO+NC Snap	CG		XCKL110	XCKL102	XCKL121	XCKL115	XCKL106
-----------------------------	------------	----	--	---------	---------	---------	---------	---------

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

XCSA Metal			NC+2NO Slow	2NC+NO Slow	3NC Slow	Accessories	
	M20		XCSA502	XCSA702	XCSA802	XCSZ01	XCSZ03
	Pg13		XCSA501	XCSA701	XCSA801		

XCSPA Plastic			NC+NO Slow	2NC Slow	2NO+NC Slow	2NC+NO Slow	2NC+NO Snap	Accessories	
	M16		XCSPA592	XCSPA792	XCSPA892	XCSPA992	XCSPA492	XCSZ11	XCSZ13
	Pg11		XCSPA591	XCSPA791	XCSPA891	XCSPA991	XCSPA491		



- 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 include

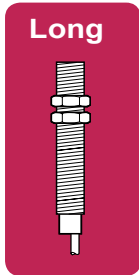
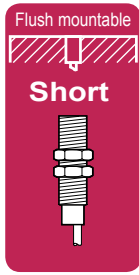
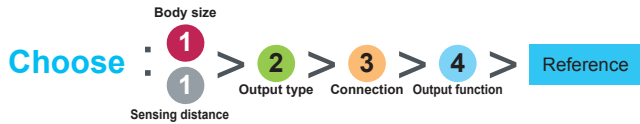
Cabling XC

		PUR pre wired connectors (female)*			Connectors (female)		
M12		straight	elbowed	elbowed PNP LED	M12	straight	elbowed
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2	(1) 4 pin	XZCC12FDM40B	XZCC12FCM40B
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5	(2) 4 pin	XZCC12FDP40B	XZCC12FCP40B
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10	(1) 5 pin	XZCC12FDM50B	XZCC12FCM50B
5 pin	5 m	XZCP1164L5	XZCP1264L5				

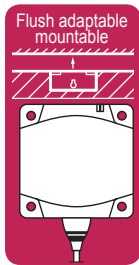
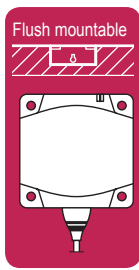
(1) Steel ring (2) Plastic ring

*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Inductives: OsiSense XS



			M8		M12	
Sensing distance			1.5 mm	2.5 mm	2 mm	4 mm
DC3	PNP	cable	XS508B1P A L2	XS108B3P A L2	XS512B1P A L2	XS112B3P A L2
		connector	XS508B1P A M8	XS108 B3P A M8	XS512B1P A M12	XS112B3P A M12
	NPN	cable	XS508B1N A L2	XS108B3N A L2	XS512B1N A L2	XS112B3N A L2
		connector	XS508B1N A M8	XS108B3N A M8	XS512B1N A M12	XS112B3N A M12
DC2		cable	XS508B3C A L2	XS608B3C A L2	XS512BSD A L2	XS612B3D A L2
		connector	XS508B3C A L01M12	XS608B3C A L01M12	XS512BSD A M12	XS612B3D A M12
DC3	PNP	cable	XS508BLP A L2	XS608B1P A L2	XS512BLP A L2	XS612B1P A L2
		connector	XS508BLP A M12	XS608B1P A M12	XS512BLP A M12	XS612B1P A M12
	NPN	cable	XS508BLN A L2	XS608B1N A L2	XS512BLN A L2	XS612B1N A L2
		connector	XS508BLN A M12	XS608B1N A M12	XS512BLN A M12	XS612B1N A M12
DC2		cable	XS508B1D A L2	XS608B1D A L2	XS512B1D A L2	XS612B1D A L2
		connector	XS508B1D A M12	XS608B1D A M12	XS512B1D A M12	XS612B1D A M12
AC/DC		cable			XS512B1M A L2	XS612B1M A L2
		connector			XS512B1M A U20	XS612B1M A U20
Output function		NO		A		A
		NC		B		B



			8x22x8 mm	15x32x8 mm	26x26x13 mm	40x40x15 mm
Sensing distance			2.5 mm	5 mm	10 mm	15 mm
DC3	PNP	cable	XS7J1A1P A L2	XS7F1A1P A L2	XS7E1A1P A L2	XS7C1A1P A L2
		connector	XS7J1A1P A L01M8	XS7F1A1P A L01M8	XS7E1A1P A M8	XS7C1A1P A M8
	NPN	cable	XS7J1A1N A L2	XS7F1A1N A L2	XS7E1A1N A L2	XS7C1A1N A L2
		connector	XS7J1A1N A L01M8	XS7F1A1N A L01M8	XS7E1A1N A M8	XS7C1A1N A M8
DC2		cable	XS7J1A1D A L2	XS7F1A1D A L2	XS7E1A1D A L2	XS7C1A1D A L2
		connector	XS7J1A1D A L01M8	XS7F1A1D A L01M8	XS7E1A1D A M8	XS7C1A1D A M8
DC3	PNP	cable			XS8E1A1P A L2	XS8C1A1P A L2
		connector			XS8E1A1P A M8	XS8C1A1P A M8
	NPN	cable			XS8E1A1N A L2	XS8C1A1N A L2
		connector			XS8E1A1N A M8	XS8C1A1N A M8
	AC/DC	cable			XS8E1A1M A L2	XS8C1A1M A L2
		connector			XS8E1A1M A L01U20	XS8C1A1M A L01U20
Output function		NO		A		A
		NC		B		B

9



XS.....M8:
 Connector M8 3 pin

XS.....M12:
 Connector M12 4 pin

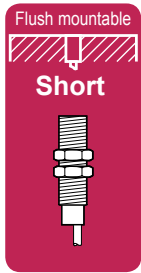
XS.....U20:
 Connector 1/2" 3 pin

Cabling XS

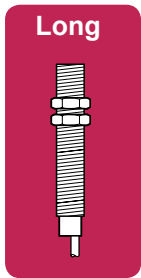
		PUR pre wired connectors (female)*	
		straight	elbowed
M8	3 pin	2 m XZCP0566L2	XZCP0666L2
		5 m XZCP0566L5	XZCP0666L5
		10 m XZCP0566L10	XZCP0666L10
1/2"	3 pin	5 m XZCP1865L5	XZCP1965L5

*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Inductives: OsiSense XS



Short



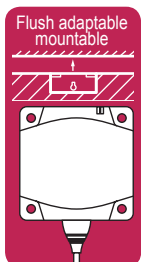
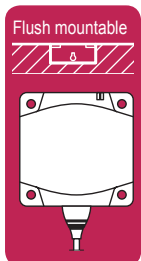
Long

			M18		M30	
			5 mm	8 mm	10 mm	15 mm
DC3	PNP	cable	XS518B1P A L2	XS118B3P A L2	XS530B1P A L2	XS130B3P A L2
		connector	XS518B1P A M12	XS118B3P A M12	XS530B1P A M12	XS130B3P A M12
	NPN	cable	XS518B1N A L2	XS118B3N A L2	XS530B1N A L2	XS130B3N A L2
		connector	XS518B1N A M12	XS118B3N A M12	XS530B1N A M12	XS130B3N A M12
DC2		cable	XS518BSD A L2	XS618B3D A L2	XS530BSD A L2	XS630B3D A L2
		connector	XS518BSD A M12	XS618B3D A M12	XS530BSD A M12	XS630B3D A M12
DC3	PNP	cable	XS518BLP A L2	XS618B1P A L2	XS530BLP A L2	XS630B1P A L2
		connector	XS518BLP A M12	XS618B1P A M12	XS530BLP A M12	XS630B1P A M12
	NPN	cable	XS518BLN A L2	XS618B1N A L2	XS530BLN A L2	XS630B1N A L2
		connector	XS518BLN A M12	XS618B1N A M12	XS530BLN A M12	XS630B1N A M12
DC2		cable	XS518B1D A L2	XS618B1D A L2	XS530B1D A L2	XS630B1D A L2
		connector	XS518B1D A M12	XS618B1D A M12	XS530B1D A M12	XS630B1D A M12
AC/DC		cable	XS518B1M A L2	XS618B1M A L2	XS530B1M A L2	XS630B1M A L2
		connector	XS518B1M A U20	XS618B1M A U20	XS530B1M A U20	XS630B1M A U20
Output function		NO		A	A	A
		NC		B	B	B

Accessories



M8	XSZB108
M12	XSZB112
M18	XSZB118
M30	XSZB130



			80x80x26 mm	Cubic	40x40x117 mm	Flush mountable	Non flush mountable
			40 mm			20 mm	40 mm
DC3	PNP	cable	XS7D1A1P A L2		NO+NC	XS8C2A1PCM12	XS8C2A4PCM12
		connector	XS7D1A1P A M12			XS8C2A1NCM12	XS8C2A4NCM12
	NPN	cable	XS7D1A1N A L2		NO	XS8C2A1DAM12	XS8C2A4DAM12
		connector	XS7D1A1N A M12			XS8C2A1MAU20	XS8C2A4MAU20
DC2		cable	XS7D1A1D A L2		NO+NC	XS8C4A1PCP20	XS8C4A4PCP20
		connector	XS7D1A1D A M12			XS8C4A1NCP20	XS8C4A4NCP20
AC/DC		cable	XS7D1A1M A L2		NO or NC	XS8C4A1DPP20	XS8C4A4DPP20
		connector	XS7D1A1M A U20			XS8C4A1MPP20	XS8C4A4MPP20
Output function		NO			NO or NC		
		NC					

Accessories

For 26x26: XSZBE00, XSZBE90

For 40x40: XSZBC00, XSZBC90

DC3 24 V:

DC4 24 V:

AC/DC 24...240 V:

DC2 24 V:

Cabling XS

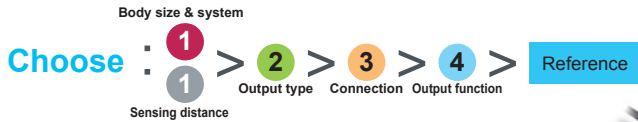
M12	PUR pre wired connectors (female)*			
	straight	elbowed	elbowed PNP LED	
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10

M12	Connectors (female)	
	straight	elbowed
4 pin (1)	XZCC12FDM40B	XZCC12FCM40B
	XZCC12FDP40B	XZCC12FCP40B

(1) Steel ring (2) Plastic ring

*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Photo-electrics: OsiSense XU



		Sensing distance			M18 metal		M18 plastic		Miniature			
Diffuse 	0.6 m	DC3	PNP	cable	XUB5BP A NL2	XUB5AP A NL2	1 m	XUM5AP C NL2				
				connector 4P	XUB5BP A NM12	XUB5AP A NM12						
				NPN	cable	XUB5BN A NL2		XUB5AN A NL2				
			connector 4P		XUB5BN A NM12	XUB5AN A NM12						
			0.1 m		DC3	PNP		cable		XUB4BP A NL2	XUB4AP A NL2	XUM5AN C NL2
				connector 4P				XUB4BP A NM12		XUB4AP A NM12	XUM5AN C NM8	
NPN	cable	XUB4BN A NL2		XUB4AN A NL2			XUM5AN C NL2					
	connector 4P	XUB4BN A NM12	XUB4AN A NM12	XUM5AN C NM8								
	Polarized Reflex 	2 m	DC3	PNP	cable	XUB9BP A NL2	XUB9AP A NL2	5 m	XUM9AP C NL2			
connector 4P					XUB9BP A NM12	XUB9AP A NM12						
NPN					cable	XUB9BN A NL2	XUB9AN A NL2					
				connector 4P	XUB9BN A NM12	XUB9AN A NM12						
				Accessory: Reflector		XUZC50	XUZC50		XUZC50			
Reflex 				4 m	DC3	PNP	cable		XUB1BP A NL2		XUB1AP A NL2	
	connector 4P	XUB1BP A NM12	XUB1AP A NM12									
	NPN	cable	XUB1BN A NL2				XUB1AN A NL2					
		connector 4P	XUB1BN A NM12			XUB1AN A NM12						
		Accessory: Reflector				XUZC50	XUZC50					
	Thru-beam 	15 m	DC3			PNP	cable	XUB2BP A NL2R	XUB2AP A NL2R	15 m	XUM2AP C NL2R	
connector 4P				XUB2BP A NM12R	XUB2AP A NM12R							
NPN				cable	XUB2BN A NL2R		XUB2AN A NL2R					
				connector 4P	XUB2BN A NM12R		XUB2AN A NM12R					
Accessory: Transmitter				cable	XUB2BKSNL2T		XUB2AKSNL2T	XUM2AP C NM8R				
connector 4P				XUB2BKSNM12T	XUB2AKSNM12T	XUM2AN C NL2R						
Output function				NO		A	A	NO or NC	C			
				NC		B	B					
									XUM2AN C NM8R			
									XUM2AN C NL2T			
							XUM2AK C NL2T					
							XUM2AK C NM8T					

Multimode 		DC3	PNP	cable	XUB0BPSNL2	XUB0APSNL2	XUM0APSNL2
				connector 4P	XUB0BPSNM12	XUB0APSNM12	XUM0APSNM12
			NPN	cable	XUB0BNSNL2	XUB0ANSNL2	XUM0ANSNL2
				connector 4P	XUB0BNSNM12	XUB0ANSNM12	XUM0ANSNM12
		Sensing distance			Background Sup: 0.12 m	Diffuse: 0.3 m	XUM0ANSAM8
		Output function		NO or NC	Polarized reflex: 3 m	Thru-beam: 20 m	XUM0ANSAL2
		Accessory: Transmitter		DC			XUM0AKSNL2T
				cable	XUB0BKSNL2T	XUB0AKSNL2T	XUM0AKSNL2T
				connector 4P	XUB0BKSNM12T	XUB0AKSNM12T	XUM0AKSNM12T
							XUM0AKSAM8T

Reflectors

XUZC24, XUZC80, XUZC50, XUZC100

3D fixings with ball joint

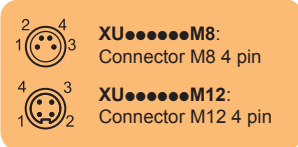
Bracket with ball joint for sensors and reflector XUZC50

Protective housing with ball joint

M12 rod for ball joint

Fixing support for M12 rod

XUB	XUZB2003	XUZK2004	XUZ2001	XUZ2003
XUM0	XUZM2003	XUZK2004		
XUK...	XUZK2003	XUZK2004		
XUX...	XUZK2003	XUZK2004		



Cabling XU

PUR pre wired connectors (female)*

M8		straight	elbowed
4 pin	2 m	XZCP0941L2	XZCP1041L2
	5 m	XZCP0941L5	XZCP1041L5
	10 m	XZCP0941L10	XZCP1041L10

*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Photo-electrics: OsiSense XU

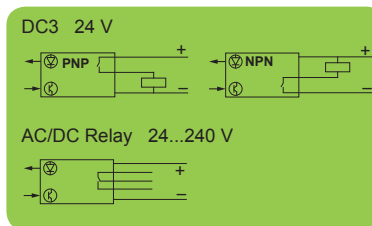


	Sensing distance				Compact 50x50 mm		Compact 92x71 mm					
Diffuse 	1 m	DC3	PNP	cable	XUK5AP A NL2	2.1 m	DC3	PNP	terminals	XUX5AP A NT16		
				connector 4P	XUK5AP A NM12				connector 4P	XUX5AP A NM12		
			NPN	cable	XUK5AN A NL2			NPN	terminals	XUX5AN A NT16		
				connector 4P	XUK5AN A NM12				connector 4P	XUX5AN A NM12		
			AC/DC	Relay	cable			XUK5ARCNL2	AC/DC	Relay	terminals	XUX5ARCNT16
			Output function		NO			A		NO		A
		NC		B		NC		B				
Polarized Reflex 	5 m	DC3	PNP	cable	XUK9AP A NL2	11 m	DC3	PNP	terminals	XUX9AP A NT16		
				connector 4P	XUK9AP A NM12				connector 4P	XUX9AP A NM12		
			NPN	cable	XUK9AN A NL2			NPN	terminals	XUX9AN A NT16		
				connector 4P	XUK9AN A NM12				connector 4P	XUX9AN A NM12		
			AC/DC	Relay	cable			XUK9ARCNL2	AC/DC	Relay	terminals	XUX9ARCNT16
			Accessory: Reflector		XUZC50			XUZC50				
Reflex 	7 m	DC3	PNP	cable	XUK1AP A NL2	14 m	DC3	PNP	terminals	XUX1AP A NT16		
				connector 4P	XUK1AP A NM12				connector 4P	XUX1AP A NM12		
			NPN	cable	XUK1AN A NL2			NPN	terminals	XUX1AN A NT16		
				connector 4P	XUK1AN A NM12				connector 4P	XUX1AN A NM12		
			AC/DC	Relay	cable			XUK1ARCNL2	AC/DC	Relay	terminals	XUX1ARCNT16
			Accessory: Reflector		XUZC50			XUZC50				
Thru-beam 	30 m	DC3	PNP	cable	XUK2AP A NL2R	40 m	DC3	PNP	terminals	XUX2AP A NT16R		
				connector 4P	XUK2AP A N M12R				connector 4P	XUX2AP A NM12R		
			NPN	cable	XUK2AN A NL2R			NPN	terminals	XUX2AN A NT16R		
				connector 4P	XUK2AN A NM12R				connector 4P	XUX2AN A NM12R		
			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	DC3 PNP/NPN		DC3 PNP/NPN		
		cable	XUK0AKSAL2	terminals	XUX0AKSAT16
	connector 4P	XUK0AKSAM12	connector 4P	XUX0AKSAM12	
	AC/DC	Relay	cable	XUK0ARCTL2	
	AC/DC	Relay	terminals	XUX0ARCTT16	
	Background Suppression: 0.28 m		Background Suppression: 1.3 m		
	Diffuse: 0.8 m		Diffuse: 2 m		
	Polarized reflex: 4 m		Polarized reflex: 11 m		
	Thru-beam: 30 m		Thru-beam: 40 m		
Accessory: Transmitter	DC	cable	XUK0AKSAL2T	terminals	XUX0AKSAT16T
		connector 4P	XUK0AKSAM12T	connector 4P	XUX0AKSAM12T
	AC/DC	cable	XUK0ARCTL2T	terminals	XUX0ARCTT16T

Other fixings

	standard	with ball joint
XUB	XUZA118 (stainless steel)	XUZA218 (plastic)
XUM	XUZAM02	-
XUK	XUZA51	-
XUX	XUXZ2000	-

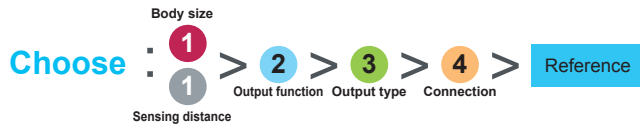


M12	PUR pre wired connectors (female)*			M12	Connectors (female)	
	straight	elbowed	elbowed PNP LED		straight	elbowed
4 pin	2 m	XZCP1141L2	XZCP1241L2	4 pin (1)	XZCC12FDM40B	XZCC12FCM40B
	5 m	XZCP1141L5	XZCP1241L5	4 pin (2)	XZCC12FDP40B	XZCC12FCP40B
	10 m	XZCP1141L10	XZCP1241L10			

(1) Steel ring (2) Plastic ring

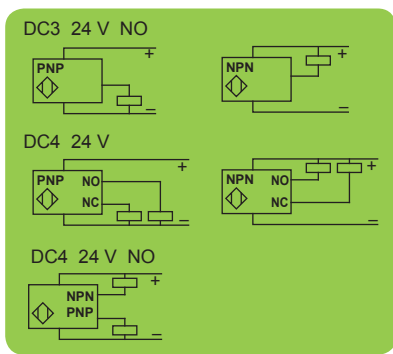
*For a PVC cable add the letter V after the P example: XZCPxxxxx become XZCPVxxxxx

Ultrasonic: OsiSense XX



		M12		M18		M18 metal	M30		M30 stainless
Sensing distance		0.05 m	0.1 m	0.15 m	0.5 m Adjust.	0.05 m fixed	1 m Adjust.	8 m Adjust.	1 m Adjust.
Connectors/Cables		M8 4 pin	M8 3 pin	M12 4 pin	M12 4 pin	M12 4 pin	M12 4 pin	M12 4 pin	M12 4 pin
NO	DC4 PNP/NPN	XX512A1KAM8		XX518A1KAM12			XX630A1KAM12		
	DC3 PNP		XX512A2PAM8		XX518A3PAM12(1)	XXV18B1PAM12	XX6V3A1PAM12 (1)		
		NPN		XX512A2NAM8		XX518A3NAM12(1)		XX6V3A1NAM12 (1)	
NO+NC	DC4 PNP						XX630A1PCM12	XX630A3PCM12	XX630S1PCM12
	NPN						XX630A1NCM12	XX630A3NCM12	XX630S1NCM12
Analogue	4...20 mA				XX918A3C2M12(1)		XX9V3A1C2M12 (1)	XX930A3A2M12	XX930S1A2M12
	0...10 V				XX918A3F1M12(1)		XX9V3A1F1M12 (1)	XX930A3A1M12	XX930S1A1M12

(1) Adjustable with XXZPB100



		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)
Analogue	4...20 mA				XX9V1A1C2M12 (1)	
	0...10 V				XX9V1A1F1M12 (1)	

(1) Adjustable with XXZPB100

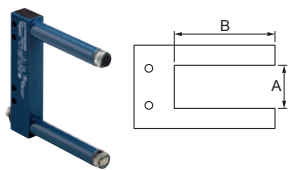
XUZ 2001	M12	XUZB2012
XUZ 2003	M18	XUZB2003
	M30	XUZB2030

For XX7K	Flat	XXZ3074F
	Cranked	XXZ3074S

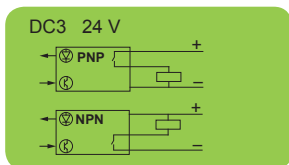
M12	XXZ12
M18	XUZA118
M30	XXZ30
XX7F	XXZ1933

Adjustable	XXZPB100
------------	----------

Forks: OsiSense XUV



		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	XUVR0605P A NM8	XUVR0608P A NM8	XUVR1212P A NM8	XUVR1218P A NM8	XUVR1212P A NM8	XUVR1218P A NM8	XUVR1218P A NM8
	NPN	M8 3 pin	XUVR0605N A NM8	XUVR0608N A NM8	XUVR1212N A NM8	XUVR1218N A NM8	XUVR1212N A NM8	XUVR1218N A NM8	XUVR1218N A NM8
Output function	NO		A		A		A		A
	NC		B		B		B		B



Cabling XX & XUV

		PUR pre wired connectors (female)*			Connectors (female)			
M8		straight	elbowed	elbowed PNP LED	M12	straight	elbowed	
3 pin	2 m	XZCP0566L2	XZCP0666L2		(1)	4 pin	XZCC12FDM40B	XZCC12FCM40B
	5 m	XZCP0566L5	XZCP0666L5		(2)	4 pin	XZCC12FDP40B	XZCC12FCP40B
	10 m	XZCP0566L10	XZCP0666L10		(1) Steel ring (2) Plastic ring			
4 pin	2 m	XZCP0941L2	XZCP1041L2					
	5 m	XZCP0941L5	XZCP1041L5					
	10 m	XZCP0941L10	XZCP1041L10					
M12		straight	elbowed	elbowed PNP LED	M12	straight	elbowed	
4 pin	2 m	XZCP1141L2	XZCP1241L2	XZCP1340L2		4 pin	XZCC12MDM40B	XZCC12MCM40B
	5 m	XZCP1141L5	XZCP1241L5	XZCP1340L5		5 pin	XZCC12MDM50B	XZCC12MCM50B
	10 m	XZCP1141L10	XZCP1241L10	XZCP1340L10				

*For a PVC cable add the letter V after the P example: XZCPxxxxxx become XZCPVxxxxxx

For more information on Detection components, please connect to website: www.tesensors.com

Schneider Electric Industries SAS

www.schneider-electric.com

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
France

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Design: Schneider Electric
Photos: Schneider Electric