



Harmony XVL LED pilot lights

Control and signaling units Ø 8 and 12



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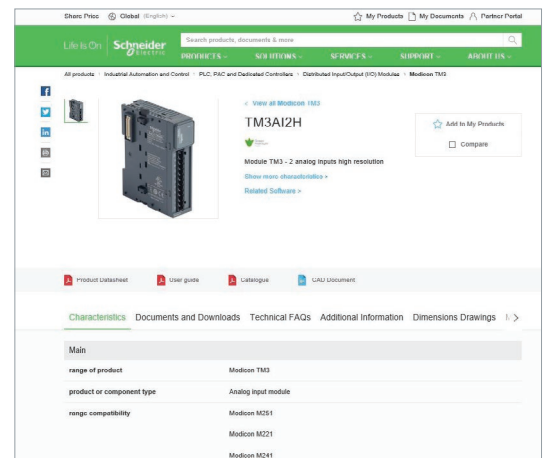
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Get technical information about your product

References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

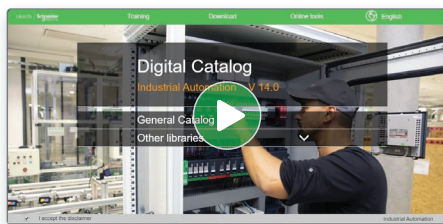
References	Input range	Resolution	Input terminal block (T)	Reference	Weight (kg)
2 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	16 000 or 10 000 + sign	0 580.2	TM3A12H	0.130
4 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	12 000 or 11 000 + sign	0 580.2	TM3A14	0.200
4 voltage/current or temperature inputs (I, K, R, S, E, T, N, E, C)	Thermopile (I) I, K, R, S, E, T, N, E, C Temperature (C) RTD (Pt100, Pt1000) 0...+10 VDC 0...20 mA / -20 mA	16 000 or 10 000 + sign	3 510.15	TM3A18	0.200
4 differential temperature inputs	Thermopile (I) I, K, R, S, E, T, N, E, C 0...+10 VDC 0...20 mA / -20 mA	16 000 or 10 000 + sign	3 510.15	TM3A19	0.200
4 voltage/current inputs	-10...+10 VDC	12 000 or 11 000 + sign	0 580.2	TM3A18	0.130



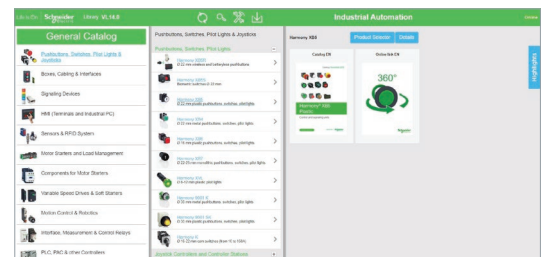
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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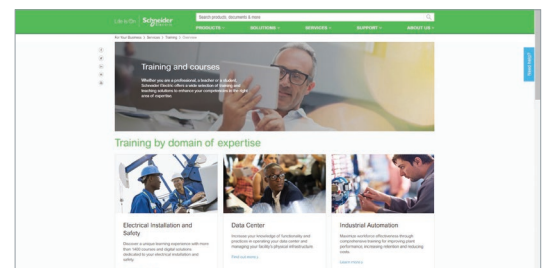


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General contents

Harmony® XVL LED pilot lights

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Product type	Pilot lights	Pushbuttons, selector switches, and pilot lights				Biometric switches	Wireless and batteryless pushbuttons	Pushbuttons, selector switches, and pilot lights	Joystick controllers	Pushbuttons, selector switches, and pilot lights	Cam switches		
													
Description of range	<ul style="list-style-type: none"> LED pilot lights 	<ul style="list-style-type: none"> Pushbuttons Multiple-headed pushbuttons Emergency stop pushbuttons Selector switches and key switches Illuminated pushbuttons Pilot lights Flush mounted pushbuttons, selector switches, and pilot lights (1) 				Fingerprint readers 24V $\overline{\text{---}}$ <ul style="list-style-type: none"> Standalone biometric switches Standalone USB biometric switches USB biometric switches dedicated to Schneider HMI (2) 	<ul style="list-style-type: none"> Wireless and batteryless pushbuttons and rope pull switch Wireless receivers Harmony Hub EcoStruxure Panel Server 	<ul style="list-style-type: none"> Pushbuttons Emergency stop and Emergency switching off pushbuttons Selector switches and key switches Illuminated pushbuttons Pilot lights 	<ul style="list-style-type: none"> 2- or 4-direction Stay put or spring return 	<ul style="list-style-type: none"> Pushbuttons Emergency stop pushbuttons Selector switches and key switches Illuminated pushbuttons Pilot lights 	<ul style="list-style-type: none"> Stepping switches Reversing and changeover switches Ammeter switches Voltmeter switches Reversing switches Star-delta and reversing star-delta switches Pole change switches 		
Features	Products	Monolithic, compact, low consumption				Monolithic	Ready-to-use packs (3) and "components" range	Monolithic	Complete units or sub-assemblies (body + head with lever)		Complete units or pre-assembled units (body + head)	Complete units or sub-assemblies (body + front panel + head)	
	Bezel	Double insulated	Double insulated (4)	Metal, chromium plated, or black	Double insulated	Double insulated, dark gray	Metal, chromium plated, or double insulated, black	Double insulated, dark gray (or white for pilot lights)	Metal, chromium plated	Double insulated, black	Metal, chromium plated, or double insulated, black		
	Shape of head	Circular	Circular, square, or rectangular	Circular	Circular	–	Transmitter with circular head	Circular	Circular		Hexagonal	Square	
Drill hole or cut-out for fixing		Ø 8 and Ø 12 mm/ 0.315 and 0.472 in.	Ø 16 mm/0.630 in.	Ø 22 mm/0.866 in. Ø 30 mm/1.181 in. (for flush mounted control and signaling units)	Ø 22 mm/0.866 in.	Ø 22 mm/0.866 in.					Ø 30 mm/1.181 in.	Ø 16 or Ø 22 mm/0.630 or 0.866 in.: series K10 Ø 22 mm/0.866 in. and multifixing: series K1/K2 4 holes, 48 or 68 centers: series K30...K150	
Degree of protection	Conforming to IEC 60529	IP40 IP65 with seal	IP65	IP66, IP67, IP69, and IP69K	IP65 (control button)	IP65	IP65 (control buttons and pilot lights) IP54 (Emergency switching off pushbuttons)	IP65	IP65	IP65	IP66 (complete units) IP65 (pre-assembled units)	IP65: series K10 IP40, IP65 with seal: series K1/K2 IP40: series K30...K150	
	Conforming to UL 508, UL 50E and CSA C22-2 No. 14	–	Enclosure type 4, 4X, and 13		Enclosure type 12	Enclosure type 12	Enclosure type 3 (pushbuttons and Emergency stop) and 4 (pilot lights)	Enclosure type 4, 4X, and 13	Enclosure type 4 and 13 (9001K) Enclosure type 4, 4X, and 13 (9001SK) Enclosure type 1, 2, 3, 3R, 4, 4X, 6, 12, and 13 (9001KR18● and 9001SKR18●)	–			
Cabling		Tags for 2.8 x 0.5 mm/0.110 x 0.020 in. connectors or threaded connector	Faston connectors Solder pins for printed circuit boards (4) Fast connector socket (5)	Push-in terminal connections Screw clamp terminal connections Faston connectors Connector with adapter for printed circuit board	Cable or connectors	Wireless (transmitter) Through cable (receiver)	Screw and captive clamp terminal connections Faston clip connections (pilot lights)	Screw and captive clamp terminal connections					
Mounting	Panel thickness	1...8 mm/ 0.039...0.315 in.	1...6 mm/0.039...0.236 in.			1...6 mm/0.039...0.236 in.						0.5...6 mm/0.020...0.236 in. (depending on model)	
Type references		XVL	XB6, XB6E	XB4	XB5	XB5S	Harmony Wireless	XB7	XD4PA	XD2GA	XD5PA	9001K, 9001SK	K10, K1, K2, K30, K50, K63, K115, K150

(1) Flush mounted control and signaling units are available for Harmony XB4 and XB5 ranges only.
 (2) Compatible with Harmony IPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models.
 (3) Wireless and batteryless pushbutton and receiver ready-paired at the factory.

(4) For Harmony XB6 only.
 (5) For Harmony XB6E only.

Control and signaling units

Ø 8 and 12

Harmony XVL LED pilot lights

Presentation

This range of LED pilot lights meets the latest requirements in signaling techniques.

Applications

Due to their small size, Ø 8 and Ø 12 fixing pilot lights are particularly suitable for the following applications:

- Mounting on small control panels
- Shallow depth mounting
- Where a large number of signaling units are required on a control panel
- Low power dissipation

Advantages

LED pilot lights have many advantages:

- Very long life and low maintenance costs (bulb test procedure no longer required)
- Highly resistant to shocks, vibrations, and over voltage
- Low power consumption which, for example, allows direct compatibility with programmable controller outputs
- No sudden failures

Description and environment

■ The Harmony XVL range features two different models:

- **XVLA1** ●● 8 mm/0.31 in. diameter pilot lights with black bezel. This version has a sealed front face (IP 40).
- **XVLA2** ●● 8 and 12 mm/0.31 and 0.47 in. diameter pilot lights with integral lens cap and covered LED. These models have sealed front faces (IP 40) and can be fitted with an additional seal to provide IP 65 protection.

■ All models comply with UL (Recognized) and CSA certifications.

Connection

■ Quick installation is assisted by:

- tag connectors suitable for soldered connections on Ø 8 mm/Ø 0.31 in. pilot lights
- threaded connectors on Ø 12 mm/Ø 0.47 in. pilot lights

■ This offers two advantages in terms of connection:

- An integral ballast resistor
 - Reverse polarity protection
-



XVLA1●●

IP 40 version



XVLA2●●

IP 65 version



XVLA2●● + XVLZ911 (1)

IP 40 version

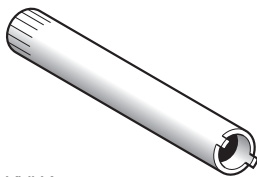


XVLA3●●

IP 65 version



XVLA3●● + XVLZ912 (1)



XVLX●●



XVLZ91●

References

Pilot lights with black bezel

Description	Supply voltage ---	Color	Reference	Weight kg/lb
Ø 8 mm/Ø 0.31 in. Degree of protection: <input type="checkbox"/> IP 40 (with integral ballast resistor and reverse polarity protection diode)	12 V	Red	XVLA124	0.003/0.007
		Yellow	XVLA125	0.003/0.007
	24 V	Green	XVLA133	0.003/0.007
		Red	XVLA134	0.003/0.007
		Yellow	XVLA135	0.003/0.007
	48 V	Green	XVLA143	0.003/0.007
	Red	XVLA144	0.003/0.007	

Pilot lights with integral lens cap, covered LED

Description	Supply voltage ---	Color	Reference	Weight kg/lb
Ø 8 mm/Ø 0.31 in. Degree of protection: <input type="checkbox"/> IP 40 <input type="checkbox"/> IP 65 with seal XVLZ911 (1) (with integral ballast resistor and reverse polarity protection diode)	12 V	Green	XVLA223	0.003/0.007
		Red	XVLA224	0.003/0.007
		Yellow	XVLA225	0.003/0.007
	24 V	Green	XVLA233	0.003/0.007
		Red	XVLA234	0.003/0.007
		Yellow	XVLA235	0.003/0.007
48 V	Green	XVLA243	0.003/0.007	
	Red	XVLA244	0.003/0.007	
Ø 12 mm/Ø 0.47 in. Degree of protection: <input type="checkbox"/> IP 40 <input type="checkbox"/> IP 65 with seal XVLZ912 (1) (with integral ballast resistor and reverse polarity protection diode)	5 V	Red	XVLA314	0.007/0.015
	12 V	Green	XVLA323	0.007/0.015
		Red	XVLA324	0.007/0.015
		Yellow	XVLA325	0.007/0.015
	24 V	Green	XVLA333	0.007/0.015
		Red	XVLA334	0.007/0.015
Yellow		XVLA335	0.007/0.015	
48 V	Green	XVLA343	0.007/0.015	
	Red	XVLA344	0.007/0.015	
	Yellow	XVLA345	0.007/0.015	

Separate components

Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Tightening tools (sold singly)	Ø 8 mm/Ø 0.31 in. pilot lights	1	XVLX08	0.015/0.033
	Ø 12 mm/Ø 0.47 in. pilot lights	1	XVLX12	0.030/0.661
Seals (IP 65)	Ø 8 mm/Ø 0.31 in. pilot lights	10	XVLZ911	0.001/0.002
	Ø 12 mm/Ø 0.47 in. pilot lights	10	XVLZ912	0.001/0.002

Other versions

Ø 8 and Ø 12 mm/Ø 0.31 and Ø 0.47 in. LED pilot lights, without resistor, without reverse polarity protection diode (max. direct current: 30 mA ---)
Please consult our Customer Care Centre.

(1) To be ordered separately.

Control and signaling units Ø 8 and 12

Harmony XVL LED pilot lights

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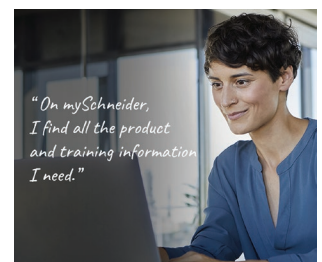
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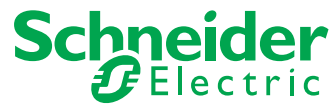
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