Control and signaling units Ø 8 and 12

Harmony® XVL LED pilot lights

Catalog

January 2015

Schneider Electric

General contents

Harmony® XVL LED pilot lights

Control and signaling units

Type of products		Pilot lights	Pushbuttons, selector switches and pilot lights			Biometric switches
						
Description of range		■ LED pilot lights	■ Pushbuttons ■ Multiple-headed pushbuttons ■ Emergency Stop pushbuttons ■ Selector switches and key switches ■ Illuminated pushbuttons ■ Pilot lights			Fingerprint readers 24V ⎓ ■ Stand-alone biometric switches ■ Stand-alone USB biometric switches ■ USB biometric switches dedicated to Schneider HMI *(1)*
Features	Products	Monolithic, compact, low consumption	Complete units or sub-assemblies (body + head)			Monolithic
	Bezel	Double insulated	Double insulated *(3)*	Metal, chromium plated or black	Double insulated	Double insulated, dark grey
	Shape of head	Circular	Circular, square or rectangular	Circular	Circular or square	–
Drilling or cut-out for fixing		Ø 8 mm and Ø 12 mm/*0.315 in. and 0.472 in.*	Ø 16 mm/*0.630 in.*	Ø 22 mm/*0.866 in.*		
Degree of protection	Conforming to IEC 60529	IP 40 IP 65 with seal	IP 65	IP 66 IP 69K (Selector switches and key switches, multiple-headed pushbuttons and Emergency Stop pushbuttons with bellows)		IP 65 (control button)
	Conforming to UL 508 and CSA C22-2 N° 14	–	Enclosure type 4, 4X and 13			Enclosure type 12
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 *(3)* Fast connector socket *(4)*	Spring clamp terminal connections Screw clamp terminal connections Faston connectors Connector With adaptor for printed circuit board		Cable or connectors
Mounting	Panel thickness	1…8 mm/*0.039…0.315 in.*	1…6 mm/*0.039…0.236 in.*			
Type references		**XVLA**	**XB6, XB6E**	**XB4**	**XB5**	**XB5S**

(1) Compatible with Magelis iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models.
(2) Wireless and batteryless pushbutton and receiver ready-paired at the factory.

Wireless and batteryless pushbuttons	Pushbuttons, selector switches and pilot lights	Joystick controllers		Pushbuttons, selector switches and pilot lights	Cam switches
					
■ Wireless and batteryless pushbuttons and rope pull switch ■ Configurable receivers ■ Access point ■ Relay-antenna ■ Mobile handy box or plastic boxes for wall mounting	■ Pushbuttons ■ Emergency Stop and Emergency switching off pushbuttons ■ Selector switches and key switches ■ Illuminated pushbuttons ■ Pilot lights	■ 2 or 4 direction ■ Stay put or spring return		■ Pushbuttons ■ Emergency Stop buttons ■ Selector switches and key switches ■ Illuminated pushbuttons ■ Pilot lights	■ Switches ■ Stepping switches ■ Reversing and changeover switches ■ Ammeter switches ■ Voltmeter switches ■ Reversing switches ■ Star-delta and reversing star-delta switches ■ Pole change switches
Ready-to-use packs *(2)* and "components" range	Monolithic	Complete units or sub-assemblies (body + head with lever)		Complete units or sub-assemblies (body + head)	Complete units or sub-assemblies (body + front panel + head)
Metal, chromium plated or double insulated, black	Double insulated, dark grey (or white for pilot lights)	Metal, chromium plated	Double insulated, black	Metal, chromium plated or double insulated, black	
Transmitter with circular head	Circular	Circular		Hexagonal	Square
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 centres: series K30…K150
IP 65	IP 65 (control buttons and pilot lights) IP 54 (Emergency switching off pushbuttons)	IP 65	IP 66 / IP 65	IP 66	IP 65: series K10 IP 40, IP 65 with seal: series K1/K2 IP 40: series K30…K150
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, 13 (9001SK)	–
Wireless (transmitter) Through cable (receiver)	Screw and captive clamp terminal connections Faston clip connections (pilot lights)	Screw and captive clamp terminal connections			
1…6 mm/*0.039…0.236 in.*					0.5…6 mm/*0.020…0.236 in.* (depending on model)
XB5R, XB4R	**XB7**	**XD4PA**	**XD2GA / XD5PA**	**9001K, 9001SK**	**K10, K1, K2, K30, K50, K63, K115, K150**

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

Control and signaling units Ø 8 and 12
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 XVL A 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

Control and signaling units Ø 8 and 12
LED pilot lights


XVLA1●●

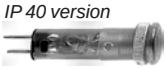
References

Pilot lights with black bezel

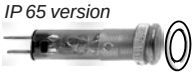
Description	Supply voltage ⎓	Color	Reference	Weight kg/*lb*
Ø 8 mm/*Ø 0.31 in.* **Degree of protection:** □ IP 40 (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	**XVLA113**	0.003/*0.007*
		Red	**XVLA114**	0.003/*0.007*
		Yellow	**XVLA115**	0.003/*0.007*
	12 V	Green	**XVLA123**	0.003/*0.007*
		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*
		Yellow	**XVLA145**	0.003/*0.007*

Pilot lights with integral lens cap, covered LED

IP 40 version


XVLA2●●

IP 65 version


XVLA2●● + XVLZ911 (1)

Description	Supply voltage ⎓	Color	Reference	Weight kg/*lb*
Ø 8 mm/*Ø 0.31 in.* **Degree of protection:** □ IP 40 □ IP 65 with seal XVLZ911 *(1)* (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	**XVLA213**	0.003/*0.007*
		Red	**XVLA214**	0.003/*0.007*
		Yellow	**XVLA215**	0.003/*0.007*
	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*
		Yellow	**XVLA245**	0.003/*0.007*

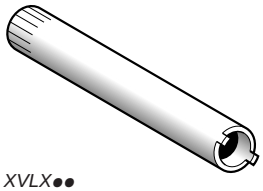
IP 40 version


XVLA3●●

IP 65 version


XVLA3●● + XVLZ912 (1)

Description	Supply voltage ⎓	Color	Reference	Weight kg/*lb*
Ø 12 mm/*Ø 0.47 in.* **Degree of protection:** □ IP 40 □ IP 65 with seal XVLZ912 *(1)* (with integral ballast resistor and reverse polarity protection diode)	5 V	Green	**XVLA313**	0.007/*0.015*
		Red	**XVLA314**	0.007/*0.015*
		Yellow	**XVLA315**	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*


XVLX●●


XVLZ91●

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.

Product reference index

Harmony Innovation

www.schneider-electric.com/control

Schneider Electric Industries SAS

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

Design: Schneider Electric
Photos: Schneider Electric

DIA5ED2130605EN

January 2015