### Product data sheet Characteristics

## ZB5AW0B42 red light block with body/fixing collar with integral LED 24V 1NC

Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Harmony XB5
Product or component type	Complete body/contact assembly and light block
Device short name	ZB5
Fixing collar material	Plastic
Sale per indivisible quantity	1
Head type	Standard
Contacts type and composition	1 NC
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals: <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to EN 60947-1 Screw clamp terminals: >= 1 x 0.22 mm <sup>2</sup> without ca- ble end conforming to EN 60947-1
Light source	Protected LED
Bulb base	Integral LED
Light block supply	Direct
Light source colour	Red

#### Complementary

Complementary					
CAD overall width	1.18 in (30 mm)				
CAD overall height	1.65 in (42 mm)				
CAD overall depth	1.26 in (32 mm)				
Terminals description ISO n°1	(11-12)NC				
Product weight	0.07 lb(US) (0.032 kg)				
Contacts usage	Standard				
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K				
Operating travel	0.06 in (1.5 mm) (NC changing electrical state) 0.17 in (4.3 mm) (total travel)				
Operating force	2 N (NC changing electrical state)				
Mechanical durability	5000000 cycles				
Tightening torque	7.0810.62 lbf.in (0.81.2 N.m) conforming to EN 60947-1				
Shape of screw head	Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat $\emptyset$ 4 mm screwdriver Slotted head compatible with flat $\emptyset$ 5.5 mm screwdriver				
Contacts material	Silver alloy (Ag/Ni)				
Short-circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1				
[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1				
[Ui] rated insulation voltage	600 V (degree of pollution: 3) conforming to EN 60947-1				
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 60947-1				
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1				



1000000 cycles, AC-15, 2 A at 230 V, operating rate: <= 3600 cyc/h, load factor:				
0.5 conforming to EN/IEC 60947-5-1 appendix C				
1000000 cycles, AC-15, 3 A at 120 V, operating rate: <= 3600 cyc/h, load factor:				
0.5 conforming to EN/IEC 60947-5-1 appendix C				
1000000 cycles, AC-15, 4 A at 24 V, operating rate: <= 3600 cyc/h, load factor:				
0.5 conforming to EN/IEC 60947-5-1 appendix C				
1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: <= 3600 cyc/h, load fac- tor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
$\Lambda$ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC				
60947-5-4				
$\Lambda$ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC				
60947-5-4				
Steady				
24 V AC/DC, 50/60 Hz				
19.230 V DC				
21.626.4 V AC				
18 mA				
100000 h at rated voltage and 25 °C				
1 kV conforming to IEC 61000-4-5				

#### Environment

Protective treatment	ТН				
Ambient air temperature for storage	-40158 °F (-4070 °C)				
Ambient air temperature for operation	-40158 °F (-4070 °C)				
Electrical shock protection class	Class II conforming to IEC 60536				
Standards	CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C 4520 UL 508				
Product certifications	LROS (Lloyds register of shipping) CSA UL listed BV RINA GL DNV				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27				
Resistance to fast transients	2 kV conforming to IEC 61000-4-4				
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) conforming to IEC 61000-4-3				
Resistance to electrostatic discharge	6 kV on contact (on metal parts) conforming to IEC 61000-2-6 8 kV in free air (in insulating parts) conforming to IEC 61000-2-6				
Electromagnetic emission	Class B conforming to IEC 55011				
Customizable	No				

### Ordering and shipping details

Category	22469 - PUSHBUTTON,22MM ACCESSORIES-NEW
Discount Schedule	CS2
GTIN	00785901387824
Nbr. of units in pkg.	1
Package weight(Lbs)	7.0000000000007E-2
Returnability	Y
Country of origin	FR

WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause can- cer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov

### Contractual warranty

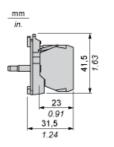
Warranty period

18 months

Product data sheet Dimensions Drawings

## **ZB5AW0B42**

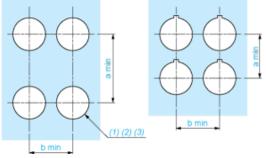
Dimensions



# **ZB5AW0B42**

### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board

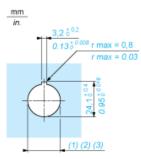


Diameter on finished panel or support (1)

- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ ) (2)
- (3)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

#### **Detail of Lug Recess**



(1) Diameter on finished panel or support

- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. (2)
- (3) Ø22.5 mm recommended (Ø22.3  $_{0}^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_{0}^{+0.016}$ )

# **Mouser Electronics**

Authorized Distributor

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Schneider Electric: ZB5AW0B42