## Product data sheet Characteristics

# ZB5AK1533

Head for illuminated selector switch, Harmony XB5, dark grey plastic, green handle, 22mm, universal LED, 3 positions,



Main         Range of product       Harmony XB5         Product or component       Head for illuminated selector switch         Vype       Product compatibility         Universal LED       Device short name         ZB5       Bezel material         Dark grey plastic       Mounting diameter         Head type       Standard         Sale per indivisible guantity       1					
Shape of signaling unit headRoundType of operatorTo centre spring returnOperator profileGreen standard handleOperator position3 positions +/- 45°					
information					
Complementary CAD overall width 29 mm					
CAD overall height 29 mm					
CAD overall depth 43 mm					
Net weight 0.016 kg					
Mechanical durability 500000 cycles					
Station name XALD 15 cut-outs XALK 25 cut-outs					
M6 for <2 contacts using single blocks in front mounting with in transformer M10 for <2 contacts using single blocks in front mounting with i MF1 for <2 contacts using single blocks in front mounting with i MR1 for <2 contacts using single blocks in rear mounting with i	M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED M4 for <4 contacts using single and double blocks in front mounting with integral				
Device presentation Basic element					
Environment Protective treatment TH					
Ambient air temperature for storage -4070 °C					
Ambient air temperature for operation -4070 °C					
Overvoltage category     Class II conforming to IEC 60536					
IP degree of protection     IP66 conforming to IEC 60529       IP69     IP69K	IP66 conforming to IEC 60529 IP67 IP69				
NEMA degree of protection     NEMA 13 NEMA 4X					

Resistance to high pressure washer

IK degree of protection



7000000 Pa at 55 °C, distance : 0.1 m

IK04 conforming to IEC 50102

Standards	EN/IEC 60947-1 JIS C8201-5-1 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-5-4 CSA C22.2 No 14 JIS C8201-1				
Product certifications	UL listed[RETURN]CSA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]DNV[RETURN]BV				
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27				

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.4 cm
Package 1 Width	5.4 cm
Package 1 Length	6 cm
Package 1 Weight	23 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	4.5 cm
Package 2 Width	26.5 cm
Package 2 Length	3.3 cm
Package 2 Weight	118 g
Unit Type of Package 3	S03
Number of Units in Package 3	200
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	5.216 kg
Package 3 Weight	5.216 kg

## Offer Sustainability

Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
REACh free of SVHC	Yes				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <sup>A</sup> EU RoHS Declaration				
Toxic heavy metal free	Yes				
Mercury free	Yes				
China RoHS Regulation	China RoHS Declaration				
RoHS exemption information	₫ Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End Of Life Information				
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov				

## Contractual warranty

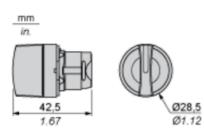
Warranty

18 months

Product data sheet Dimensions Drawings

# ZB5AK1533

## Dimensions

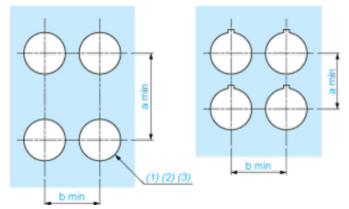




# ZB5AK1533

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

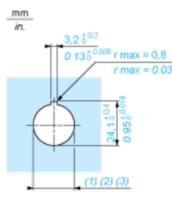
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

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

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.

(3) Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

### Life Is On Schneider

#### Panel Cut-outs (Viewed from Installer's Side)



A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

## Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

#### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

#### Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB5AZ009: ± 2°30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



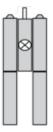
#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

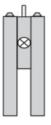
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

# ZB5AK1533

## Electrical Composition Corresponding to Code M3



### Electrical Composition Corresponding to Code M4



## Electrical Composition Corresponding to Codes M6 and P2



## Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



#### Legend

Single contact



Double contact

Light block

#### Possible location

## Sequence of Contacts Fitted to 3-position Selector Switch Body

## Position 315°



Push	Position	Тор		$\otimes$	
Bottom		$\bigtriangleup$			
Location		Left	Right		
State		1	0		
Contacts	N/O	·	closed	open	
N/C		open	closed		

## Position 0°



Push	Position	Тор		$\otimes$	
Bottom	$\bigtriangleup$	$\bigtriangleup$			
Location		Left	Right		
State		0	0		
Contacts	N/O		open	open	
N/C		closed	closed		-

## Position 45°



Push	Position	Тор				
Bottom	$\bigtriangleup$					
Location		Left	Right			
State		0	1			
Contacts	N/O		open	closed		
N/C		closed	open			