

Product data sheet

Characteristics

ZB5AC3

초록색 Ø40 버섯모양 푸쉬버튼 헤드 Ø22 스프링 리턴



기본항목

제품의 범위	하모니 XB5
제품 또는 구성요소 타입	점등되지 않은 누름버튼용 헤드
모델명	ZB5
베젤 소재	Dark grey plastic
헤드 타입	Standard
마운팅 직경	22 mm
최소 판매 수량	1
시그널링 장치 헤드의 형상	원형
조작자의 타입	스프링 귀환
조작자 프로파일	녹색 버섯머리 Ø 40 mm, 표식되지 않은
장치 프레젠테이션	Basic element

전기적/기계적 특성

모든 너비에 대한 CAD	40 mm
모든 높이에 대한 CAD	40 mm
모든 깊이에 대한 CAD	52 mm
제품 무게	0.046 kg
기계적 내구성	5000000 주기
역 이름	XALD 컷아웃 1개 XALK 컷아웃 1개
Electrical composition code	C1 9 단일 in 전면 마운팅 C2 9 single and double in 전면 마운팅 C11 3 단일 in 전면 마운팅 C15 1 단일 in 전면 마운팅 SF1 3 단일 in 전면 마운팅 SR1 3 단일 in rear mounting
Compatibility code	ZB5

사용환경

보호 처리	TH
저장온도	-40...70 °C
사용온도	-40...70 °C
과전압 카테고리	Class II 일치되는 IEC 60536
IP 등급	IP66 일치되는 IEC 60529 IP69 IP69K
보호의 NEMA 정도	NEMA 13 NEMA 4X
높이 압력 와셔에 대한 저항	7000000 Pa 에서 55 °C, 거리: 0.1 m
보호의 IK 정도	IK03 conforming to IEC 50102
표준	JIS C8201-5-1 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-1 UL 508 IEC 60947-5-4 JIS C8201-1

제품 인증	UL 리스트됨[RETURN]BV[RETURN]CSA[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]GL
내진동	5 gn (f= 2...500 Hz) 일치되는 IEC 60068-2-6
내충격성	30 GN (반치폭 = 18 ms) half sine wave acceleration 일치되는 IEC 60068-2-27 50 GN (반치폭 = 11 ms) half sine wave acceleration 일치되는 IEC 60068-2-27

포장 단위

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.500 cm
Package 1 Width	5.000 cm
Package 1 Length	9.000 cm
Package 1 Weight	48.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	42
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.250 kg

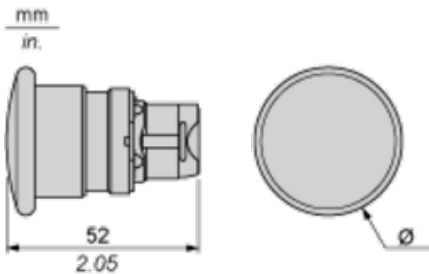
상품의 지속 가능성

지속 가능성 제공 상태	Green Premium 제품
REACH 규정	 REACH 선언
SVHC 없는 REACH	예
EU RoHS 지침	선제 준수(EU RoHS 법적 범위 외 제품)  EU RoHS 선언
유독성 중금속 없음	예
수은 없음	예
중국 RoHS 규정	 중국 RoHS 선언
RoHS 면제 정보	 예
환경 공시	 제품 환경 프로필
순환성 프로필	 수명 종료 정보

계약 보증

보증	18 개월
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Dimensions



	Ø in mm	Ø in in.
ZB5AC•	40	1.57
ZB5AR•	60	2.36

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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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.: $T1 + T2 = 0.3 \text{ mm max.}$

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: $\pm 2^\circ 30'$ (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.



(1) Head ZB5AD•

(2) Panel

(2) Nut

(4) Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

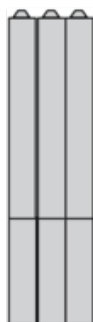
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ01•
- 3 $8 \times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ holes
- 4 1 hole $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$, for 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 $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$ for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ holes for centring adapter ZBZ01•.

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

Electrical Composition Corresponding to Code C15

1 N/O

1 N/C

1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C

Legend

Single contact

Double contact

Light block

Possible location

