Datasheet - AZ 3350-12ZUEK-U90

Safety switch with separate actuator / AZ 3350



(Minor differences between the printed image and the original product may exist!)

- Metal enclosure
- Latching handle
- Long life
- 40,5 mm x 114 mm x 38 mm
- High level of contact reliability with low voltages and currents
- 1 Cable entry M 20 x 1.5
- Actuating head rotated by 90°

Ordering details

Product type description	AZ 3350-12ZUEK-U90
Article number	1174757
EAN code	4030661304243

To order, first choose the desired safety switch and then the door handle system

Approval

Approval	BG USA/CAN CCC

Classification

Standards	EN ISO 13849-1
B_{10d} Opener (NC)	2.000.000
B_{10d} Normally open contact (NO)	1.000.000
- notice	at 10% I_e and ohmic load
Mission time	20 Years
notice	

$$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600\ s/h}{t_{cycle}}$$

Global Properties

Product name	AZ 3350
Standards	EN 60947-5-1, BG-GS-ET-15, EN 1088
Materials	
- Material of the housings	Aluminium
- Material of the contacts	Silver
Housing coating	painted
Weight	230 g
Recommended combinations	AZ 3350-STS30-02, AZ 3350-STS30-04, AZ 3350-STS30-05, AZ 3350-STS30-07

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm²
- Max. Cable section	2.5 mm²
Mechanical life	1.000.000 operations
higher Latching force (Y/N)	No
Shearing force	15.000 N
Positive break force	5 N for each NC contact fitted
positive break travel	10.7 mm
Door hinge	left
notice	All indications about the cable section are including the conductor ferrules.

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−30 °C
- Max. environmental temperature	+90 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Slow action with overlapping contacts
Number of auxiliary contacts	1 piece
Number of safety contacts	2 piece
Rated impulse withstand voltage U_{imp}	4 kV
Rated insulation voltage U_i	250 V
Thermal test current I_{the}	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Width of sensor	40.5 mm
- Height of sensor	114 mm
- Length of sensor	38 mm

Included in delivery

Mounting plate for safety switch
Actuator incl. mounting plate
emergency handle

Diagram



Note Diagram
positive break NC contact
active
no active
Normally-open contact
Normally-closed contact

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.
Order example: AZ 3350-12ZUEK-U90**-1637**

...**-1637**	0,3 µm gold-plated contacts

Ordering code

AZ 3350-**(1)**-**(2)**-**(3)**

(1)

03ZK	3 Opener (NC)
12ZUEK	1 Normally open contact (NO) / 2 Opener (NC)

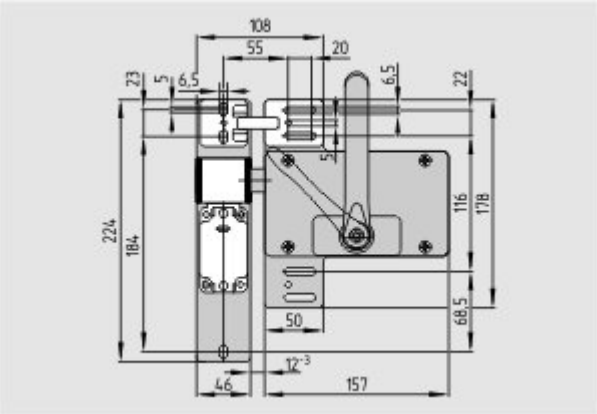
(2)

1637	gold-plated contacts

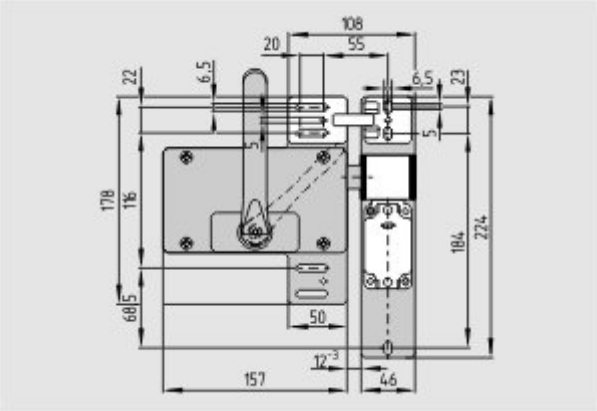
(3)

U90	Actuating head rotated by 90° for Door hinge left

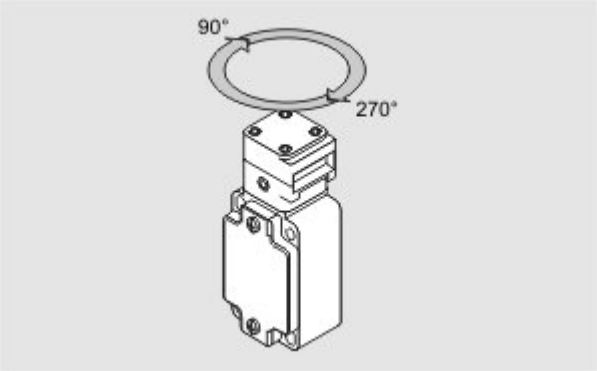
U270 Actuating head rotated by 270° for Door hinge right



Dimensional drawing (miscellaneous)



Dimensional drawing (miscellaneous)



Application

System components

Door-handle system



AZ 3350-STS30

• Latching handle

Accessories



Lockout tag SZ 415

• Suitable for mounting inside and outside of the hazardous area
• To prevent inadvertent closing, e.g. during maintenance
• For complex plant
• Prevents actuation of the switch
• Lockout tag with 3 circular holes

Centring device

• Pre-positioning



- The actuator is independent from the centring device.
- Smooth insertion or retraction of the actuator