



AZ 200SK-T-1P2P

- Screw connection
- Thermoplastic enclosure
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring
- 3 LEDs to show operating conditions
- Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally
- Intelligent diagnosis

Data

Ordering data

Note (Delivery capacity)	Phased-out product
EAN (European Article Number)	4030661317267
eCl@ss number, Version 9.0	27-27-26-02
eCl@ss number, Version 11.0	27-27-26-02
Available until	31.12.2020

Approval - Standards

Certificates	TÜV cULus EAC
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General data

Standards	IEC 61508 IEC 60947-5-3 EN ISO 13849-1
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Active principle	Non-contact
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	345 g
Time to readiness, maximum	4,000 ms
Reaction time, maximum	60 ms
Duration of risk, maximum	120 ms

General data - Features

Actuator monitored	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Series-wiring	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of safety contacts	2

Safety appraisal

Standards	IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	4.00×10^{-9} /h
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Hysteresis (Switch distance), maximum	1.5 mm
Repeat accuracy R R	0.5 mm

Latching force	30 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Switching distances according IEC 60947-5-3

Switch distance	6.5 mm
Ensured switch distance "ON" S_{ao}	4 mm
Ensured switch distance "OFF" S_{ar}	30 mm

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Wire cross-section, minimum	23 AWG
Wire cross-section, maximum	15 AWG

Mechanical data - Dimensions

Length of sensor	50 mm
Width of sensor	40 mm
Height of sensor	220 mm

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Relative humidity, minimum	30 %

Relative humidity, maximum	95 %
Note (Relative humidity)	non-condensing
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms
Protection rating	II

Ambient conditions - Insulation value

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to VDE 0100	3

Electrical data

No-load supply current I_0	100 mA
Rated operating voltage, minimum	20.4 VDC
Rated operating voltage, maximum	26.4 VDC
Operating current	50 mA
Switching frequency, approx.	1 Hz

Electrical data - Fail-safe digital inputs

Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
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Electrical data - Fail-safe digital outputs

Rated operating current (safety outputs)	250 mA
Versions	p-type
Voltage drop U_d , maximum	4 V
Current leakage I_r	0.5 mA
Voltage, Utilisation category DC13	24 VDC

Current, Utilisation category DC13 0.25 A

Electrical data - Digital Output

Versions p-type

Electrical data - Diagnostic output

Voltage drop U_d , maximum 4 V
Voltage, Utilisation category DC13 24 VDC
Current, Utilisation category DC13 0.05 A

Status indication

Note (LED switching conditions display) Operating condition: LED green
Error / functional defect: LED red
Supply voltage: LED green

Scope of delivery

Included in delivery Actuators must be ordered separately.

Accessory

Recommendation (actuator) AZ/AZM 200-B1

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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