DATASHEET





AZ 200ST2-T-1P2P

- Connector M12, 8-pole
- Thermoplastic enclosure
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring
- 3 LEDs to show operating conditions
- ullet Sensor technology permits an offset between actuator and interlock of \pm 5 mm vertically and \pm 3 mm horizontally
- Intelligent diagnosis

Data

Ordering data

Note (Delivery capacity) Phased-out product

EAN (European Article Number) 4030661370781

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

General data

Standards IEC 61508

IEC 60947-5-3

EN ISO 13849-1

Active principle Non-contact

Enclosure material Glass-fibre, reinforced thermoplastic

Gross weight 386 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 $4.00 \times 10^{-9} / h$

Safety Integrity Level (SIL), suitable for applications in

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_{an} 4 mm

Ensured switch distance "OFF" S_{ar} 30 mm

Mechanical data - Connection technique

Terminal Connector Connector M12, 8-pole

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

Restistance to shock 30 g / 11 ms

Protection rating II

Ambient conditions - Insulation value

Rated insulation voltage U_i 32 VDC

Rated impulse with stand voltage U_{imn} 0.8 kV

Overvoltage category III

Degree of pollution to VDE 0100 3

Electrical data

No-load supply current I₀ 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 $-3 \text{ V} \dots 5 \text{ V} \text{ (Low)}$

15 V ... 30 V (High)

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

Pin assignment

PIN 1 A1 Supply voltage UB

PIN 2 X1 Safety input 1

PIN 3 A2 GND

PIN 4 Y1 Safety output 1

PIN 5 OUT Diagnostic output

PIN 6 X2 Safety input 2

PIN 7 Y2 Safety output 2

PIN 8 IN serial diagnostic input

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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