Datasheet - AZ 16 ST2-AS R







- connector plug M12, right, 4-pole
- Thermoplastic enclosure
- · Long life
- 52 mm x 90 mm x 30 mm
- · AS-Interface LED status display
- Actuator coded
- Safety switch with separate actuator
- Integrated AS-Interface
- AS interface M12 Plug-in connection

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

Ordering details

 Product type description
 AZ 16 ST2-AS R

 Article number
 101167263

 EAN code
 4030661218434

 eCl@ss
 27-27-26-02

Approval

Approval



Classification

Basically suitable up to

Standards EN ISO 13849-1, IEC 61508

-

Control category

PFH 1.14 x 10-6 / h

- notice up to max. 100.000 switching cycles/year

SIL up 1
Mission time 20 Years

If a fault exclusion for hazardous damage of the 1-channel mechanics is authorized and an adequate protection against tampering is

up c

ensured, suitable for use up to:

PL up d
Control category 3

PFH value 1.01 x 10-7 / h

- notice up to max. 100.000 switching cycles/year

SIL up 2
Mission time 20 Years

Global Properties

Product name AZ 16 AS

Standards EN 60947-5-1, EN 50295, EN ISO 13849-1, IEC 61508

Compliance with the Directives (Y/N) C
Yes

Materials

- Material of the housings glass-fibre reinforced thermoplastic, self-extinguishing

Housing coating

Weight

110 g

Response time

None
110 g
< 100 ms</p>

Mechanical data

Design of electrical connection connector plug M12, 4-pole

connector right

Mechanical life > 1.000.000 operations

higher Latching force (Y/N)

Latching force

30 N

With ejection force (Y/N)

No

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +60 °C

Storage and transport temperature

- Min. Storage and transport temperature $$-25\ ^{\circ}\text{C}$$ - Max. Storage and transport temperature $$+85\ ^{\circ}\text{C}$$

Protection class IP67 to IEC/EN 60529

Protection rating

Air clearances and creepage distances To IEC/EN 60664-1

Rated impulse withstand voltage U_{imp} 0,8 kV
 Rated insulation voltage U_i 32 VDC
 Overvoltage category III
 Degree of pollution 3

Electrical data - AS interface

AS-i Supply voltage 26.5 ... 31.6 VDC, Protection against polarity reversal

AS-i operating current ≤ 50 mA

AS-i Device insulation internally short-circuit proof

AS-i Specification

 - version
 V 2.1

 - Profile
 S-0.B.F.E

 - IO-Code
 0x0

 - ID-Code
 0xB

- ID-Code1 0xF - ID-Code2 0xE

AS-i Inputs

Channel 1
 Data bits DI 0/DI 1= dynamic code transmission
 Channel 2
 Data bits DI 2/DI 3= dynamic code transmission

AS-i Parameter bits P0....P3 not used

- Set the parameter outputs to "1111" (0xF)

AS-i input module address

- Default on address 0, programmable via the AS-Interface Master or Hand-held programming device

LED switching conditions display

LED switching conditions display (Y/N)

Yes

AS-i LED switching conditions display

(1) green LED Supply voltage

(2) red LED Communication error / slave address = 0

(3) yellow LED Enabling status

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
 - Height of sensor
 - Length of sensor
 90 mm

Pin assignment

1 AS-i +
2 None
3 AS-i 4 None

Included in delivery

Actuators must be ordered separately.

Ordering code

AZ 16 (1)-AS (2)

(1)
ST1 connector bottom
ST2 connector right
ST3 connector left

(2)

withoutwithout latchingRLatching 30 NR-2254Latching 5 N

Operating instructions and Declaration of conformity (de) 229 kB, 10.01.2012

Code: mrl_az16as_de

Operating instructions and Declaration of conformity (fr) 231 kB, 02.02.2012

Code: mrl_az16as_fr

Operating instructions and Declaration of conformity (nl) 229 kB, 02.02.2012

Code: mrl_az16as_nl

Operating instructions and Declaration of conformity (sv) 228 kB, 23.01.2012

Code: mrl_az16as_sv

Operating instructions and Declaration of conformity (it) 229 kB, 02.02.2012

Code: mrl_az16as_it

Operating instructions and Declaration of conformity (en) 244 kB, 08.02.2012

Code: mrl_az16as_en

Operating instructions and Declaration of conformity (jp) 479 kB, 16.02.2012

Code: mrl_az16as_jp

Operating instructions and Declaration of conformity (da) 229 kB, 26.01.2012

Code: mrl_az16as_da

Operating instructions and Declaration of conformity (pt) 231 kB, 22.05.2012

Code: mrl_az16as_pt

Operating instructions and Declaration of conformity (cs) 219 kB, 20.01.2014

Code: mrl_az16as_cs

Operating instructions and Declaration of conformity (pl) $208\ kB,\,18.11.2013$

Code: mrl_az16as_pl

Operating instructions and Declaration of conformity (es) 231 kB, 04.04.2012

Code: mrl_az16as_es

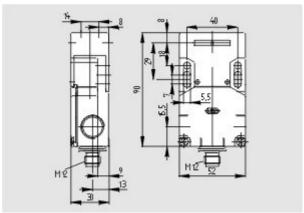
BG-test certificate (en, de) 710 kB, 23.11.2004

Code: z_16ap01

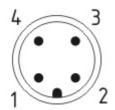
TÜV certification (de, en) 1 MB, 24.09.2014

Code: z_asip03

Images



Dimensional drawing (basic component)



Contact arrangement

System components

Actuator



101083036 - AZ 15/16-B1



101092711 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- Suitable for retrofitting



101093553 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting

101108276 - AZ 15/16-B1-2024





101108278 - AZ 15/16-B1-2024 WITH SLOT SEALING PLUG

• For protection against the ingress of course dirt



101111079 - AZ 15/16-B1-2053

· For interlocking of light to medium-weight guards



101111081 - AZ 15/16-B1-2053 WITH BALL LATCH

• For interlocking of light to medium-weight guards



101126793 - AZ 15/16-B1-2177

• For interlocking of light, unguided guards



101126794 - AZ 15/16-B1-2177 WITH CENTERING GUIDE

• For interlocking of light, unguided guards



101137408 - AZ 15/16-B1-2245

• Damps vibration on guard device



101095558 - AZ 15/16-B2

• For very smal actuating radii in line with the plane of the actuator



101096091 - AZ 15/16-B2-1747

- For very smal actuating radii in line with the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards



101096089 - AZ 15/16-B2-1747 WITH MAGNETIC LATCH

- For very smal actuating radii in line with the plane of the actuator
- · Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



101095550 - AZ 15/16-B3

• For very smal actuating radii at 90° to the plane of the actuator



101096090 - AZ 15/16-B3-1747 WITH MAGNETIC LATCH

- For very smal actuating radii at 90° to the plane of the actuator
- · Suitable for retrofitting
- · For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



101096092 - AZ 15/16-B3-1747

- For very smal actuating radii at 90° to the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards



101137434 - AZ 15/16-B6

 \bullet For very smal actuating radii in line with or at 90° to the plane of the actuator





AZ 16-STS30

- · Latching handle
- · Suitable for all types of guard

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 23.07.2015 - 23:06:56h Kasbase 3.1.12.F.64l