



AZ 16 ST1-AS ASI-SAW

- connector plug M12, bottom, 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

Data

Ordering data

Product type description	AZ 16 ST1-AS ASI-SAW
Article number (order number)	101161809
EAN (European Article Number)	4030661197241
eCl@ss number, version 12.0	27-27-26-02
eCl@ss number, version 11.0	27-27-26-02
eCl@ss number, version 9.0	27-27-26-02
ETIM number, version 7.0	EC002592
ETIM number, version 6.0	EC002592

Approvals - Standards

Certificates	cULus ASi-SaW
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General data

Standards	EN IEC 62026-2 EN ISO 13849-1 EN IEC 60947-5-1 EN IEC 61508
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Reaction time, maximum	100 ms
Gross weight	115 g

General data - Features

Ejection force	Yes
Integral system diagnostics, status	Yes

Safety classification

Vorschriften	EN IEC 61508
Performance Level, up to	c
Category	1
PFH value	1.14×10^{-6} /h
Note (PFH-value)	up to max. 100,000 switching cycles/year
Safety Integrity Level (SIL), suitable for applications in	1
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
PFH value	1.01×10^{-7} /h
Note (PFH-value)	up to max. 100,000 switching cycles/year
Safety Integrity Level (SIL), suitable for applications in	2

Mission time	20 Year(s)
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
Latching force	5 N

Mechanical data - Connection technique

Connector position	Bottom
Termination	Connector plug M12, 4-pole, (A-coding)

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	52 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +60 °C
Storage and transport temperature	-25 ... +85 °C
Protection class	II

Ambient conditions - Insulation values

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

Electrical data

Current consumption	50 mA
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Electrical data - AS Interface

Rated operating voltage	18 ... 31.6 VDC (Protection against polarity reversal)
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Electrical data - AS-Interface specification

AS-i Specification	Safety-Slave
AS-i Version	V 2.1
AS-i Profile	S-0.B.F.E
AS-i, IO-Code	0x0
AS-i, ID-Code	0xB
AS-i, ID-Code1	0xF
AS-i, ID-Code2	0xE
AS-i Input, Channel 1	Data bits DI 0 / DI 1 = dynamic code transmission
AS-i Input, Channel 2	Data bits DI 2 / DI 3 = dynamic code transmission
AS-i Parameter bits, P0 ... P3	No function
Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF)
AS-i Input module address	0
Note (AS-i Input module address)	Preset to address 0, can be changed through AS-interface bus master or hand-held programming device

Status indication

Note (LED switching conditions display)	(1) LED green: Supply voltage (2) red LED: Communication error / Slave address = 0 (3) LED yellow : Enabling status
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Pin assignment

PIN 1	AS-i +
PIN 2	n.c.

PIN 3	AS-Interface -
PIN 4	n.c.

Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Ordering code

Product type description:
AZ 16 (1)-AS (2)

(1)	
ST1	Connector bottom
ST2	Connector right
ST3	Connector left
(2)	
without	Without latching
R	Latching 30 N
R-2254	Latching 5 N

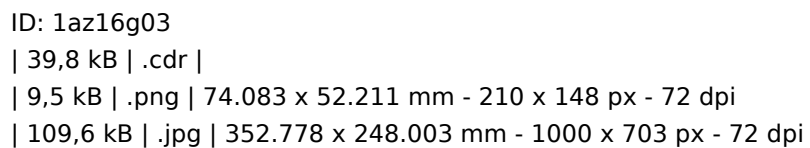
Pictures

Product picture (catalogue individual photo)



ID: kaz16f05
 | 1,3 MB | .jpg | 352.778 x 614.892 mm - 1000 x 1743 px - 72 dpi
 | 85,1 kB | .png | 74.083 x 129.117 mm - 210 x 366 px - 72 dpi
 | 50,4 kB | .jpg | 70.908 x 123.472 mm - 201 x 350 px - 72 dpi

Dimensional drawing basic component



A diagram of a circular object, possibly a coin or a button, with four dots arranged in a square pattern. A small notch is located at the bottom center of the circle. The object is labeled with numbers 1, 2, 3, and 4 at the corners: 1 at the bottom-left, 2 at the bottom-right, 3 at the top-right, and 4 at the top-left.

ID: km12-k4c
| 4,2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
| 113,3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

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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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