



ZQ 700 FK-AS

- AS interface Connection for flat cable, bottom, can be rotated
- Thermoplastic enclosure
- One tension force for cable lengths up to 10 m
- Release push button
- Position indicator
- Twisting of towing eye not possible
- wire pull and breakage detection
- Double-insulated
- Integrated AS-Interface
- Suitable for AS-i Power24

Data

Ordering data

Note (Delivery capacity)	Phased-out product
EAN (European Article Number)	4030661404677
eCl@ss number, Version 9.0	27-37-12-01
eCl@ss number, Version 11.0	27-37-12-01
ETIM number, version 6.0	EC002026
Available until	31.12.2020

Approval - Standards

Certificates	cULus
	ASi-SaW
	EAC

General data

Standards	IEC 61508 EN 60947-5-1 EN 50295 EN ISO 13850 EN ISO 13849-1
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the cover	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Length of the wire, maximum	10 m
Gross weight	265 g
Reaction time, maximum	100 ms

Safety appraisal

Standards	IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	1.40×10^{-8} /h
Note (PFH-value)	up to max. 5,000 switching cycles/year
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

Mechanical data

Mechanical life, minimum	100,000 Operations
Actuating force, maximum	200 N
Actuating travel	400 mm

Mechanical data - Connection technique

Terminal Connector	Connection for flat cable
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Mechanical data - Dimensions

Length of sensor	51 mm
Width of sensor	40.5 mm
Height of sensor	182.5 mm

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °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 non-icing
Resistance to vibrations to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm / 5 g
Resistance to shock	15 g / 11 ms
Protection rating	II

Ambient conditions - Insulation value

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

Electrical data

Operating Current	50 mA
Switching principle	Snap switch element

Switching frequency	3,600 /h
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Electrical data - AS Interface

AS-i Operating voltage, minimum	18 VDC
AS-i Operating voltage AS-i maximum	31.6 VDC
Note (AS-i Operating voltage)	Protection against polarity reversal

Electrical data - AS-Interface specification

AS-i Version	V 3.0
AS-i Profile	S-0.B.F.F
AS-i, IO-Code	0x0
AS-i, ID-Code	0xB
AS-i, ID-Code1	0xF
AS-i, ID-Code2	0xF
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 Outputs, DO 0 ... DO 3	No Function
AS-i Parameter bits, P0	Channel 2 switched
AS-i Parameter bits, P1	No function
AS-i Parameter bits, P2	No function
AS-i Parameter bits, P3	No function
Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF) FID: periphery error
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

Notes

Note (General)

Recommended cable lengths for pull-wire Emergency-Stop switches in relation to the range of ambient temperature.

As the thimbles are subject to deformation in case of wire pull, the wire should be pulled several times after fitting. After that, the wire must be re-tensioned using the eyebolt or the tensioner.

The addressing must take place via the M12 connector or the flat cable connection.

At 2 mm to 5 mm distance, intermediate wire supports are required, see accessories

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.

Generated on: 11/9/2021, 9:21 AM