Datasheet - AZS 2305

Fail-safe delay timer / AZS 2305







(Minor differences between the printed image and the original product may

- · Fail-safe delay timer
- Time adjustable from 0,1 s to 99 min
- 3 safety contacts
- 2 Signalling outputs

Ordering details

exist!)

 Product type description
 AZS 2305

 Article number
 101126703

 EAN Code
 4030661058986

 eCl@ss
 27-37-19-01

Approval

Approval



Classification

Standards

PL Control category

PFH value

SIL

Mission time

PFHd

Switching frequency c

 MTTF_d

Classification

EN ISO 13849-1, IEC 61508

up d up 3 1.0 x 10-7/h up 2 20 Years

Global Properties

Permanent light AZS 2305

Standards IEC/EN 60204-1, EN ISO 13849-1, BG-GS-ET-20

Compliance with the Directives (Y/N) $\subset \mathcal{E}$ Yes

Mounting snaps onto standard DIN rail to EN 60715

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic

Weight

Start conditions Automatic

Start input (Y/N) No
Feedback circuit (Y/N) No
Reset after disconnection of supply voltage (Y/N) Yes
Automatic reset function (Y/N) Yes
Reset with edge detection (Y/N) No

Mechanical data

Connection type Screw connection

Cable section

- Min. Cable section -

- Max. Cable section 4

Pre-wired cable rigid or flexible

Tightening torque for the terminals 0,4
Detachable terminals (Y/N) No

notice All indications about the cable section are including the conductor ferrules.

restistance to shock 30 g / 11 ms

Resistance to vibration To EN 60068-2-6 10...55 HZ, Amplitude 0,35 mm

Time range 0,1 s ... 99 min.

Ambient conditions

Ambient temperature

- Min. environmental temperature 0

- Max. environmental temperature +55

Storage and transport temperature

- Min. Storage and transport temperature -25

- Max. Storage and transport temperature +70

Protection class

- Protection class-Enclosure IP40 - Protection class-Terminals IP20

- Protection class-Clearance IP54

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

- Rated impulse withstand voltage U_{imp} 4.8 kV

Overvoltage categoryDegree of pollutionIII To VDE 01102 To VDE 0110

Electromagnetic compatibility (EMC)

Electrical data

function

Number of secure, undelayed outputs with signaling function, with

Rated DC voltage for controls - Max. rated DC voltage for controls 20.4 - Max. rated DC voltage for controls 27.6 Rated AC voltage for controls, 50 Hz - Min. rated AC voltage for controls, 50 Hz - Max. rated AC voltage for controls, 50 Hz Rated AC voltage for controls, 60 Hz - Min. rated AC voltage for controls, 60 Hz - Max. rated AC voltage for controls, 60 Hz Contact resistance max. 100 mΩ < 5 Power consumption Type of actuation DC Switch frequency 10 24 VDC ±15% Rated operating voltage Ue Operating current le 0,1 A Electronic protection (Y/N) No Inputs Monitored inputs - Short-circuit recognition (Y/N) Yes - Wire breakage detection (Y/N) Yes - Earth connection detection (Y/N) Yes Number of shutters 1 Number of openers Input resistance approx. 2000 Ω at GND Input signal "1" 10 ... 30 VDC Input signal "0" 0 ... 2 VDC Cable length 100 m with 0,75 mm² (for Rated voltage) **Outputs** Number of safety contacts 3 0 Number of auxiliary contacts Number of signalling outputs 2 Switching capacity - Switching capacity of the safety contacts min. 10 mA, max. 6 A - Switching capacity of the signaling/diagnostic outputs Y1, Y2 = 100 mA Fuse rating - Protection of the safety contacts 6 A gG D-fuse - Fuse rating for the signaling/diagnostic outputs short-circuit proof Signalling output Y1: Authorized operation, safety contacts on; Y2: No authorised operation, safety contacts off Utilisation category To EN 60947-5-1 AC-15: 250 V / 2 A DC-13: 24 V / 2 A 2 Number of undelayed semi-conductor outputs with signaling function Number of undelayed outputs with signaling function (with contact) 0 0 Number of delayed semi-conductor outputs with signaling function. Number of delayed outputs with signalling function (with contact). 0 Number of secure undelayed semi-conductor outputs with signaling

0

contact. 0

Number of secure, delayed semi-conductor outputs with signaling function 0

Number of secure, delayed outputs with signaling function (with contact). 0

LED switching conditions display

LED switching conditions display (Y/N)

Number of LED's

1

Integral system diagnosis \$missingShortName\$

Integral system diagnosis ISD

- The following faults are registered by the safety monitoring modules and indicated by ISD
- Failure of the safety relay to pull-in or drop-out
- Fault on the input circuits or the relay control circuits of the safety monitoring module
- Difference in time setting between channel I and channel II
- Cross conclusions to the input lines
- Interruption of the input connections

Miscellaneous data

Applications

Fail-safe delay timer

Dimensions

Dimensions

 - Width
 55 mm

 - Height
 75 mm

 - Depth
 110 mm

notice

Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.

notice - Wiring example

To monitor one guard door at plants with dangerous run-on movements up to PL d and Category 3

Monitoring time for unlocking of solenoid interlocks

The solenoid interlock releases the guard device only when the set time has elapsed.

The time begins to run when the power contactors have dropped out.

The wiring diagram is shown with guard doors closed and in de-energised condition.

The ISD tables (Intergral System Diagnostics) for analysis of the fault indications and their causes are shown in the appendix.

Documents

Operating instructions and Declaration of conformity (jp) 368 kB, 14.03.2016

Code: mrl_azs2305_jp

Operating instructions and Declaration of conformity (en) 266 kB, 16.11.2017

Code: mrl_azs2305_en

Operating instructions and Declaration of conformity (nl) 264 kB, 21.02.2018

Code: mrl_azs2305_nl

Operating instructions and Declaration of conformity (es) 269 kB, 10.01.2018

Code: mrl_azs2305_es

Operating instructions and Declaration of conformity (da) 267 kB, 21.02.2018

Code: mrl_azs2305_da

Operating instructions and Declaration of conformity (pt) 276 kB, 23.01.2018

Code: mrl_azs2305_pt

Operating instructions and Declaration of conformity (pl) 283 kB, 21.02.2018

Code: mrl_azs2305_pl

Operating instructions and Declaration of conformity (fr) 268 kB, 24.01.2018

Code: mrl_azs2305_fr

Operating instructions and Declaration of conformity (it) 266 kB, 21.02.2018

Code: mrl_azs2305_it

Operating instructions and Declaration of conformity (de) 223 kB, 16.11.2017

Code: mrl_azs2305_de

Wiring example (99) 26 kB, 20.08.2008

Code: Kazs2l01

ISD tables (Intergral System Diagnostics) (de) 45 kB, 29.07.2008

Code: i_azsp01

ISD tables (Intergral System Diagnostics) (en) 28 kB, 29.07.2008

Code: i_azsp02

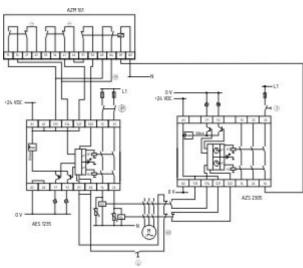
BG-test certificate (de, en) 596 kB, 11.03.2015

Code: z_azsp01

BG-test certificate (de, en) 208 kB, 22.02.2010

Code: z_azsp01

Images



Wiring example

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 13.02.2019 - 13:00:49h Kasbase 3.3.0.F.64l