

Guard door monitors Series

Series AZR 321 AR for emergency stop applications - 5 enabling paths



Features:

- Suitable for signal processing of alternatively:
 - Potential-free outputs, e.g. emergency-stop command devices, interlocking equipment etc.
 - Outputs connected to potentials (AOPD's), e.g. safety light grids/curtains
- 1 or 2 channel control
- 3 enabling paths, Stop 0; 2 enabling paths, Stop 1, adjustable up to 30 s
- Optionally
 - Cross-wire detection
 - Manual reset with edge detection in fail-safe circuit
 - Automatic reset function
- Control Category 4 to EN 954-1
- Green LED indications for relay K1, K2, K3, K4, supply voltage UB and internal fuse Ui

Approvals:

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Note:

- Function indication: the integrated LEDs indicate the following operational states.
 - Position relay K1
 - Position relay K2
 - Position relay K3
 - Position relay K4
 - Supply voltage UB
 - Internal operating voltage Ui
- The wiring diagram is shown with guard doors closed and in de-energised condition.

Technical data

Standards:	IEC/EN 60204-1, EN 954-1, BG-GS-ET-20
Stop category	3x Stop 0, 2x Stop 1 (1 ... 30 s delayed)
Control category:	4
Start conditions:	reset button without edge detection, auto start
Enclosure:	glass-fibre reinforced thermoplastic
Connection:	self-opening screw terminals
Cable section:	min. 0.6 mm ² , max. 2.5 mm ² solid or multi-strand lead (incl. conductor ferrules)
Operating voltage U_e:	24 VDC – 15 % / + 20 %, residual ripple max. 10%; 24 VAC – 15 % / + 6 %
Operating current I_e:	0.11 A
Frequency range:	50/60 Hz (on AC operational voltage)
Protection class:	terminals IP 20; enclosure IP 40 to IEC/EN 60529
Power consumption:	max. 4.0 VA plus additional contact 66
Max. fuse rating:	glass fuse F1, tripping current 0,5 A
Monitored inputs	2 channels
Feedback circuit:	yes
Drive circuits:	S11/S12, S21/S22: max. 28 VDC
Enabling contacts:	3 enabling paths
Utilisation category:	AC-15, DC-13
Switching capacity:	enabling paths: 4 A/230 VAC, 6 A/24 VDC
Fuse rating:	enabling paths: 4 A gG D-fuse to DIN EN 60269-1
Max. switching frequency:	5 Hz
Contact material:	AgNi, AgSnO, self-cleaning, positive action
Contact resistance:	max. 100 mΩ in new condition
Pull-in delay:	</= 30 ms
Drop-out delay:	</= 60 ms

Air clearances and creepage

distances:	DIN VDE 0110-1 (04.97), 4 kV/2
Overvoltage category:	III to DIN VDE 0110
Degree of pollution:	2 to DIN VDE 0110
Ambient temperature:	- 25 °C ... + 45 °C (Derating curve on request)
Mechanical life:	10 million operations
Function display:	3 LED
Weight:	480 g
Dimensions:	45 x 83 x 140 mm

Ordering details / Contact variants**AZR 321 AR 24 VAC/DC**

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