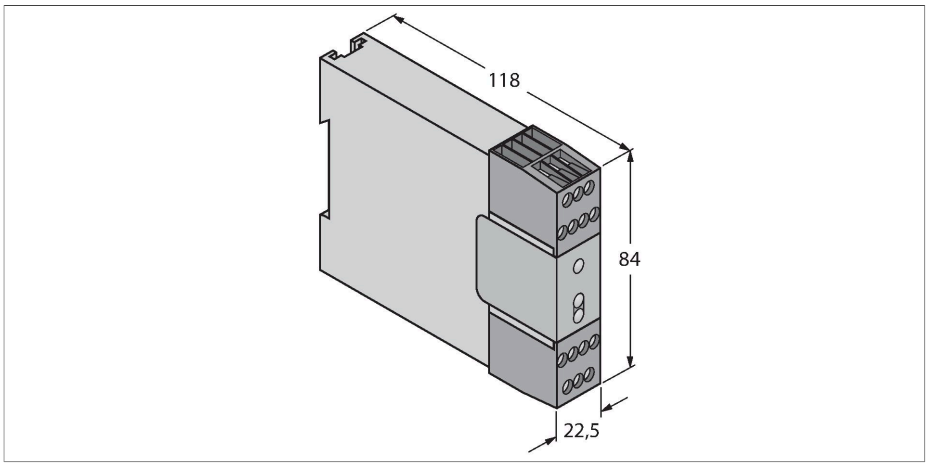
IM73-221-R/24VDC
Personnel safety – Interface module for safety light screens



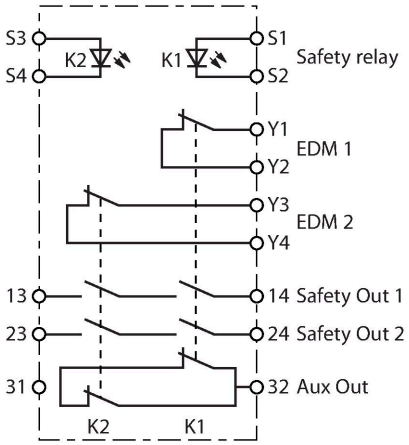
Technical data

Type	IM73-221-R/24VDC
ID	7700345
Operating voltage	21…28 VDC
Residual ripple	< 10 % U_{ss}
Output function	NO/NC, Relay output
Switching frequency	≤ 50 Hz
Response time typical	< 20 ms
Design	Terminal chamber, IM73
Dimensions	118 x 22.5 x 84 mm
Housing material	Plastic, PC, Grey
Electrical connection	Removable terminal block, reverse polarity protected, screw connection
Ambient temperature	0…+50 °C
Protection class	IP20
Power-on indication	LED, Green
Switching state	LED, Green

Features

- Complies with the requirements of ISO 13849-1
- Primary safety device required, e.g. type –Q45L… or –Q32L… light screen
- 2 safety switching outputs (NO)
- 1 auxiliary switching output (NC)
- Max. 6 A
- 2 redundant NC outputs for error monitoring
- Operating voltage 24 VDC +-15%
- Protection class IP20

Wiring diagram



Functional principle

The IM73 interface modules have 24-VDC inputs and isolated, redundant outputs to connect DC safety controllers, for example safety light screens, to AC safety circuits. The NO outputs are rated for 250 VUC and 6 A and switch with a delay of 20 ms. A monitoring circuit connected to the two NC outputs Y1-Y2 and Y3-Y4, detects interface-module errors and reports them to the higher-level safety controller. These errors are also evaluated for the internal relay contacts K1 and K2 of the interface module, which are connected to the EDM input of the higher-level controller. The higher-level safety controller can now detect interface-module errors via this monitoring circuit and can thus be installed in applications requiring control reliability acc. to OSHA/ANSI or category 3 or 4 acc. to ISO13849-1. These interface modules can also be used to increase the switching capacity of low-power safety controllers.

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