Lift door unlocking and cabin levelling safety module MA1DLIFT





- Certified according to the Lift Directive and EN 81-1,/2, EN 12015 and EN 12016
- Redundant circuit
- 2 NO safety outputs
- 1 NO optocoupled Auxiliary NPN outputs
- 24 VAC/VDC power supply
- Self monitoring
- Dual channel input
- Failure diagnosis by LEDs
- Automatic or manual start
- · Feedback circuit for external contactors monitoring
- Possibility to connect mechanical or magnetic switches for lift cabin position monitoring

Product Description

Lift door unlocking and lift cabin levelling safety module, certified according to Lift Directive 95/16/CE and to safety circuits requirements of EN 81-1, /-2, EN 12015 and EN 12016 Standards.

The module is provided with safety outputs with forced guided relay contacts, and feedback circuit. Suited for applications of risk category 4.

Ordering Key	MA1 D LIFT
Housing ————————————————————————————————————	
Controlled Devices ————————————————————————————————————	
Specific Version ————	

Electrical Specifications

Power supply	24 VAC ± 10% 50-60Hz / 24 VDC ± 10%	Safety output switching voltage /current /capability	230VAC/8A/1840VA
Power consumption	5 VA / 5 W	Safety output	
Input current/voltage	100 mA @ 24 VDC	contact fuse protection	6 A fast or 4 A delayed
Safety outputs	2 NO	Insulation voltage	2.5 KV for signal parts;
Auxiliary outputs	1 optocoupled NO 55V 50mA		4.0 KV for safety output parts: Pollution degree 2 Overvoltage category III

Time Specifications

Delay on energisation	≤ 150 ms
Delay on de-energisation	≤ 25 ms
Recovery time	≥ 25 ms
Channel simultaneity	≤ 200 ms

Environmental Specifications

Operating temperature	0°C + 65°C
Storage temperature	-25°C + 65°C

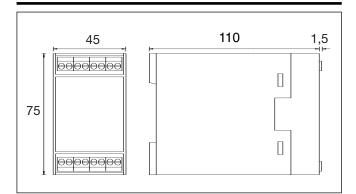
Mechanical Specifications

Protection degree terminals	IP 20
Protection degree housing	IP 30
Housing material	ABS
Housing type	45 mm housing models
Mounting	DIN rail

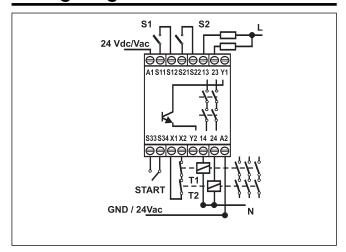
Max cross section of external conductors	2.5 mm² flexible wire 4 mm² rigid wire
Dimensions	45 x 75 x 110 mm
Weight	240 g



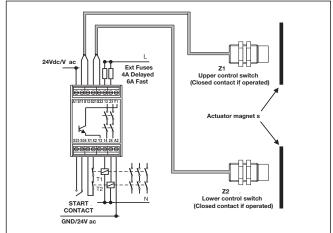
Dimensions



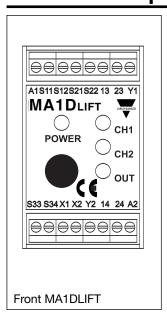
Wiring Diagrams



Application



Connection Sample



Connections

Terminal	Function/Connection
A1	+24 VDC or AC supply
A2	GND or AC supply
S11-S12	First input channel (NO)
S21-S22	Second input channel (NO)
X1-X2	Feedback input for external contactors monitoring
13-14	First safety output (NO)
23-24	Second safety output (NO)
Y1	Collector of NPN Auxiliary output (NO)
Y2	Emitter of NPN Auxiliary output (NO)
S33-S34	START (automatic o manual)