

Emergency stop and safety gate modules NA12D

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- Safety Category 4 according to EN 954-1
- Redundant circuit
- Force guided relay contacts
- Dual channel input
- 2 NO safety outputs
- Failure diagnosis by LEDs
- Feedback circuit for external contactors monitoring
- Automatic or manual start

Product Description

Emergency stop and safety gate module according to EN 60204-1, EN 292-1 /-2, EN 418 and EN 1088. The safety module is in safety category 4 and is provided with 2 NO safety outputs. It can be used together with safety magnetic sensors SMS series, safety switches or emergency push buttons.

Ordering Key

NA12 D

Housing _____
 Application _____
 Controlled Devices _____
 Safety Outputs _____
 Safety Category _____

Electrical Specifications

Power supply	24 VAC -15/+10% 50-60Hz / 24 VDC -15/+10%	Safety output contact fuse protection	5 A fast or 4 A delayed
Power consumption	< 5 VA / 5 W	Insulation voltage	none
Safety outputs	2 NO	Supply to input	4 kV 1.2/50µs
Auxiliary outputs	--	Supply to output	4 kV 1.2/50µs
Contact ratings		Input to output	Pollution degree 2 Overvoltage category III
Resistive loads	AC1 6 A @ 230 VAC DC12 6 A @ 24 VDC		
Small inductive loads	AC15 3 A @ 230 VAC DC13 2.5 A @ 24 VDC		

Time Specifications

Delay on energisation	≤ 150 ms
Delay on de-energisation	≤ 30 ms
Recovery time	≥ 30 ms
Channel simultaneity	∞

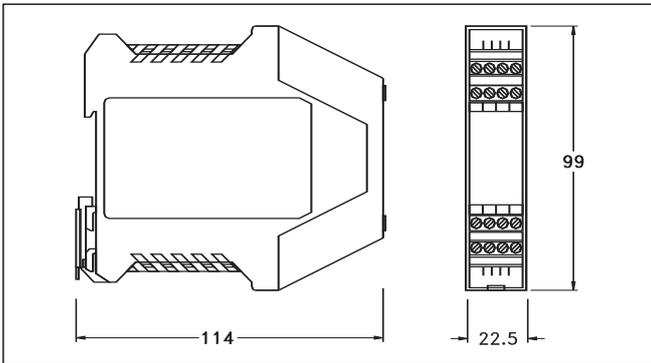
Environmental Specifications

Operating temperature	-20°C ... + 65°C
Storage temperature	-25°C ... + 65°C

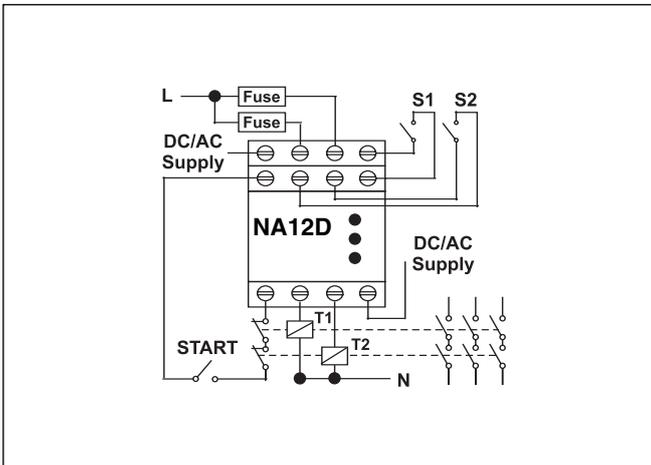
Mechanical Specifications

Protection degree terminals	IP 20	Max cross section of external conductors	2.5 mm ² flexible wire 2.5 mm ² rigid wire
Protection degree housing	IP 40	Dimensions	22.5 x 99 x 114 mm
Housing material	Polyamid PA 6.6	Weight	200 g
Housing type	22.5 mm housing models		
Mounting	DIN rail		

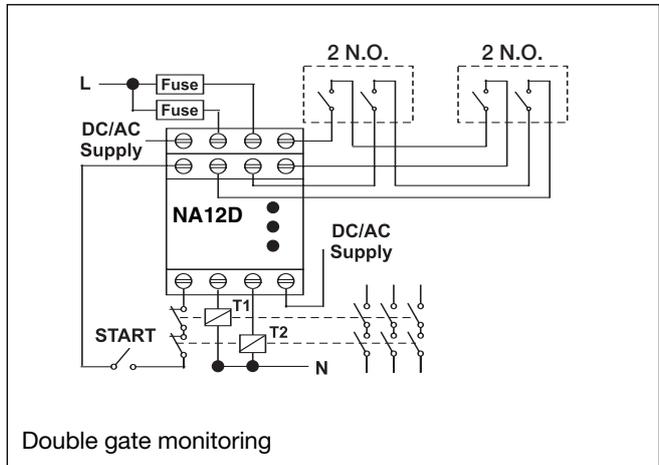
Dimensions



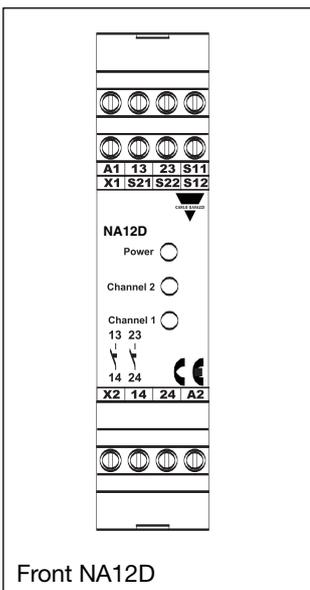
Wiring Diagrams



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 and Reset circuit input
13-14	First safety output (NO)
23-24	Second safety output (NO)