# Pressure Sensing Mat Safety Module NT1/2-D



NT1/2-D



### **Product Description**

Pressure sensing mat safety module in conformity with EN 954-1, EN 60904-1, EN 292-1,/-2 and EN 1760-1. The module has been designed to be employed along with the SM.. Safety mat; this safety system constitute an effective and reliable safety package of Safety Category 3. The module is provided with safety ouput contacts with force guided relay contacts, four wire input and manual or automatic restart.

•	Safety Category 3 together with SM Safety
	mats according to EN 954-1

- Redundant and self monitoring circuit
- Mat integrity monitoring
- Four wire input
- · Feedback circuit for external contactors monitoring
- Possibility to add /amplify safety output contacts
- Mat detection simulating through a TEST push-button
- Manual or automatic restart
- Failure diagnosis by LEDsApproval:



#### **Ordering Key**

Case		
Application		
Controlled Devices		
Safety Outputs		
Safety Category		

#### **Electrical Specifications**

Power supply	24 Vac ± 10% 50-60Hz / 24 Vdc ± 10%
Power consumption	5 VA / 5 W
Input current/voltage	70 mA @ 24 Vdc, without load
Safety outputs	2 NO

Auxiliary outputs	
Safety output switching voltage/current /capability	230Vac/6A/1500VA
Safety output contact fuse protection	4 A fast or 1 A delayed
Insulation voltage	2.5 KV for signal parts; 4.0 KV for safety output parts: Pollution degree 2 Overvoltage category III

#### **Time Specifications**

Delay on energisation	2 sec ± 15%
Delay on de-energisation	≤ 150 ms (NT1/2-D+SM)
Channel simultaneity	8

## **Environmental Specifications**

Operating temperature	0°C to + 55°C
Storage temperature	-25°C to + 55°C

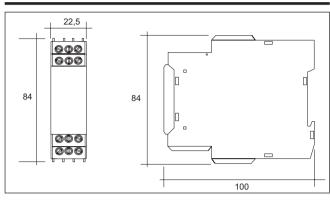
#### **Mechanical Specifications**

Protection degree terminals	IP 20
Protection degree housing	IP 30
Housing material	ABS
Housing type	22.5 mm housing models
Mounting	DIN rail

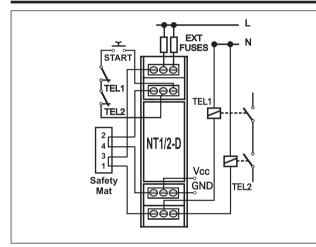
Max cross section of external conductors	2.5 mm² flexible wire 4 mm² rigid wire
Dimensions (H x W x D)	84x22.5x100 mm
Weight	160 g

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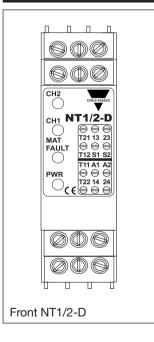
#### **Dimensions**



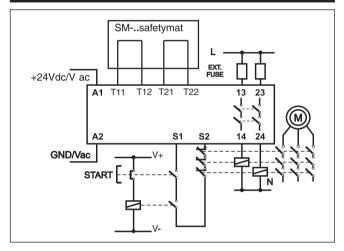
# Wiring Diagrams



# **Connection Sample**



# Application



### Connections

+24 Vdc or AC supply GND or AC supply
GIND OF AC Supply
START (automatic o manual) and feedback input for external contactors monitoring
First safety output (NO)
Second safety output (NO)
Safety mat layer 1 inputs
Safety mat layer 2 inputs