

Emergency Stop and Safety Gate Modules NA1/3-D, NA1/3-D/230

CARLO GAVAZZI



- Safety Category 4 according to EN 954-1
- Category 0 Emergency Stop
- 3 NO safety outputs
- 24 VAC / VDC, 110 or 230 VAC power supply
- single/dual channel
- automatic or manual reset
- self monitoring
- Failure diagnosis by LEDs
- Approvals:



Product Description

Emergency Stop and Safety Gate modules according to EN 60204-1, EN 292-1/-2, EN 418 and EN 1088. This family of safety module in Safety Category 4,

includes 24 Vac/Vdc, 110 or 230 Vac. Every model is characterized by dual channel input and safety output contacts with force guided relay outputs.

Ordering Key

NA1/3-D/230

Case _____
Application _____
Controlled Devices _____
Safety Outputs _____
Safety Category _____
Power Supply _____

Type Selection

Power supply

24 VAC/VDC
110 VAC
230 VAC

References

NA1/3-D
NA1/3-D/110
NA1/3-D/230

Electrical Specifications

Power supply

NA1/3-D	24 Vac/dc $\pm 10\%$
NA1/3-D/110	110 Vac $\pm 10\%$
NA1/3-D 230	230 Vac $\pm 10\%$

Power consumption 3 VA / 3 W

Input current/voltage 0.9 to 1.1 V

Safety outputs 3 NO

Auxiliary outputs 1 NC

Switching voltage / current / capability

NA1/3-D	24 Vdc / 5A
NA1/3-D/110	110 Vac / 5A
NA1/3-D 230	230 Vac / 5A

Contact fuse protection 5 A fast or 4 A slow

Insulation voltage Pollution degree:
2. Overvoltage Category:
3 / 250 V
Basis insulation: Overvoltage
Category: 3 / 250 V

Time Specifications

Delay on energisation -

Delay on de-energisation < 30 ms

Channel simultaneity ∞

Environmental Specifications

Operating temperature -25°C to + 55°C

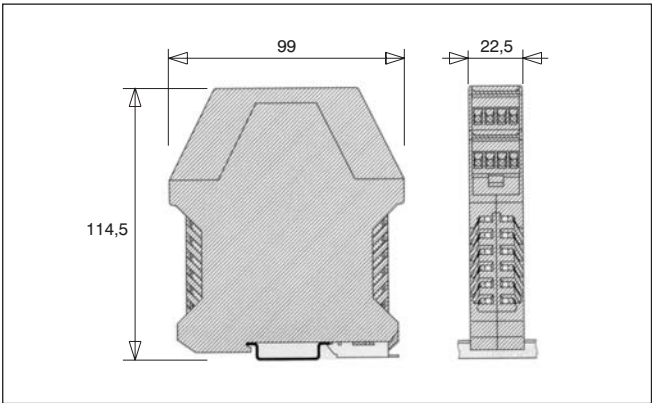
Storage temperature -25°C to + 65°C

Mechanical Specifications

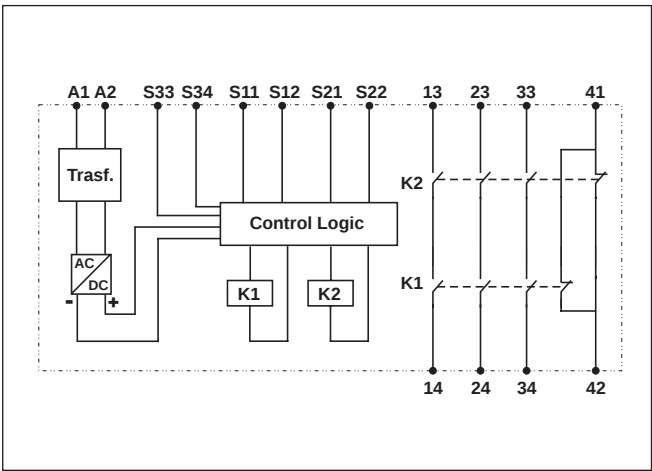
Protection degree terminals	IP 20
Protection degree housing	IP 40
Housing material	Polyamid PA6.6
Housing type	22.5 mm housing models
Mounting	DIN rail

Max cross section of external conductors	2.5 mm ² rigid wire 2.5 mm ² flexible wire
Dimensions (H x W x D)	22.5 x 114.5 x 99 mm
Weight	NA1/3-D 170 g NA1/3-D/110 238 g NA1/3-D 230 238 g

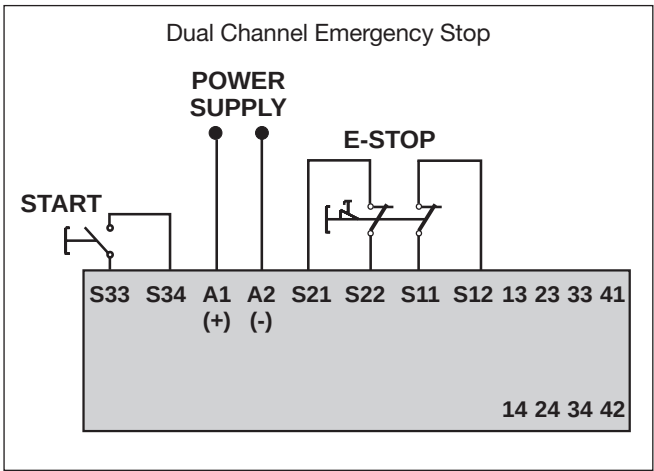
Dimensions



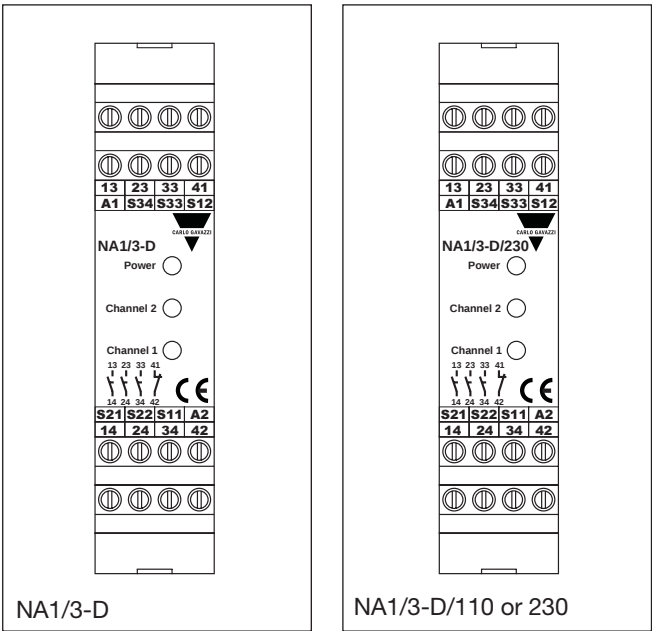
Wiring Diagrams



Application



Connection Sample



Connections

Terminal Function	Connection
A1	+24 Vdc or AC supply
A2	GND or AC supply
S11-S12	First input channel (E-STOP or Safety Switch Channel 1)
S21-S22	Second input channel (E-STOP or Safety Switch Channel 2)
S33-S34	START (automatic o manual)
13-14	First safety output (N.O.)
23-24	Second safety output (N.O.)
33-34	Third safety output (N.O.)
41-42	Auxiliary output (N.C.)