

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 or 230 VAC power supply
- single/dual channel
- automatic or manual reset
- self monitoring
- Failure diagnosis by LEDs
- Approval: TUV

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 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	References
24 VAC/VDC 230 VAC	NA1/3-D NA1/3-D/230

Electrical Specifications

Power supply	NA1/3-D NA1/3-D 230	24 Vac/dc \pm 10% 230 Vac \pm 10%
Power consumption		3 VA / 3 W
Input current/voltage		0.9 ÷ 1.1 V
Safety outputs		3 NO
Auxiliary outputs		1 NC

Switching voltage / current / capability	NA1/3-D NA1/3-D 230	24 Vdc / 5A 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

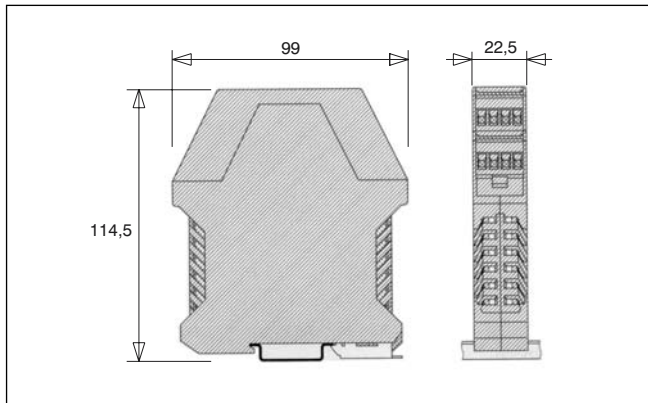
Operating temperature	-25°C ... + 55°C
Storage temperature	-25°C ... + 65°C

Mechanical Specifications

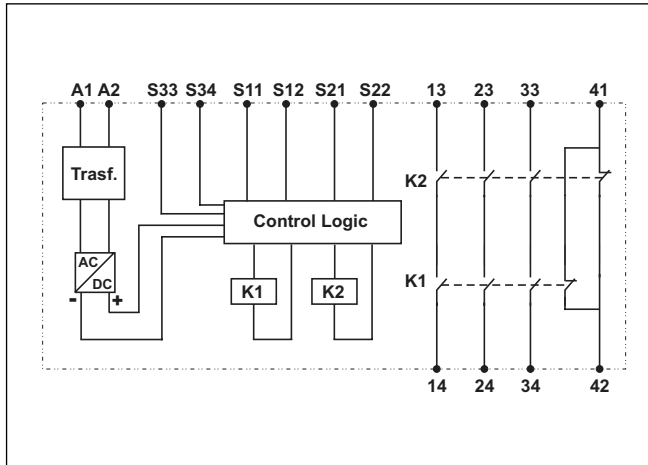
Protection degree terminals	IP 20
Protection degree housing	IP 40
Housing material	Polyamid PA6.6
Housing type	22,5 mm housing models
Mounting	DIN rail

Max cross section of external conductors	2,5 mm ² rigid wire 2,5 mm ² flexible wire	
Dimensions (H x L x P)	22.5 x 114.5 x 99 mm	
Weight	NA1/3-D NA1/3-D 230	170 g 238 g

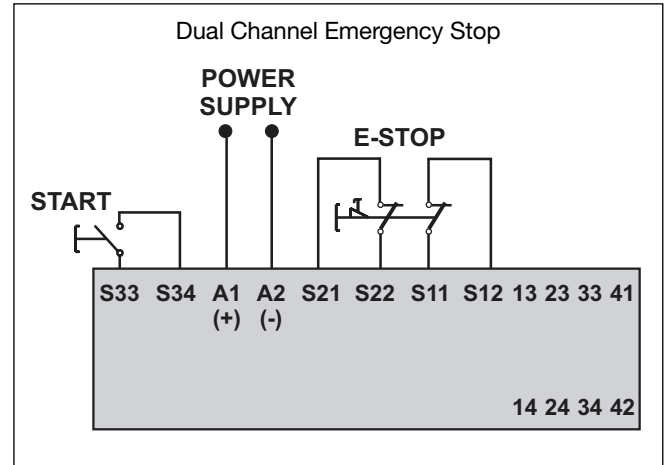
Dimensions



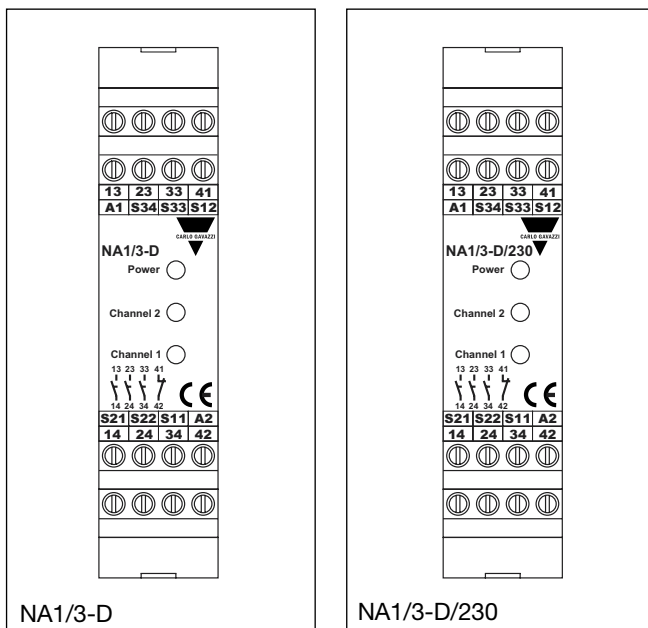
Wiring Diagrams



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 or 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.)