

# Emergency Stop and Safety Gate Modules NA13D

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- Safety Category 4 according to EN 954-1
- Category 0 Emergency Stop
- 3 NO safety outputs
- 1 NC auxiliary output
- 24 VAC / VDC, 110 VAC or 230 VAC power supply
- Single/dual channel
- Automatic or manual reset
- Self monitoring
- Failure diagnosis by LEDs
- Approvals: TÜV NORD, cULus

## 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 VAC or 230 VAC.

Every model is characterized by dual channel input and safety output contacts with force guided relay outputs.

## Ordering Key

**NA13 D 230**

Housing \_\_\_\_\_  
Application \_\_\_\_\_  
Controlled Devices \_\_\_\_\_  
Safety Outputs \_\_\_\_\_  
Safety Category \_\_\_\_\_  
Power Supply \_\_\_\_\_

## Type Selection

Power supply	References
24 VAC/VDC	NA13D
110 VAC	NA13D110CG
230 VAC	NA13D230CG

## Electrical Specifications

<b>Power supply</b>	NA13D NA13D110CG NA13D230CG	24 VAC/DC $\pm 10\%$ 110 VAC $\pm 10\%$ 230 VAC $\pm 10\%$	<b>Contact fuse protection</b>	5 A fast or 4 A slow
<b>Power consumption</b>		4 VA / 4 W	<b>Insulation voltage</b>	Pollution degree: 2 Overvoltage Category: 3 / 250 V
<b>Safety outputs</b>		3 NO		<b>24 VAC/DC    xxx AC</b>
<b>Auxiliary outputs</b>		1 NC		none            4 kV 1.2/50 $\mu$ s
<b>Contact ratings</b>				4 kV 1.2/50 $\mu$ s   4 kV 1.2/50 $\mu$ s
Resistive loads	AC1 DC12	6 A @ 230 VAC 6 A @ 24 VDC	Supply to input	
Small inductive loads	AC15 DC13	3 A @ 230 VAC 2.5 A @ 24 VDC	Supply to output	
			Input to output	

## Time Specifications

Delay on energisation	< 150 ms
Delay on de-energisation	< 30 ms
Channel simultaneity	$\infty$

## Environmental Specifications

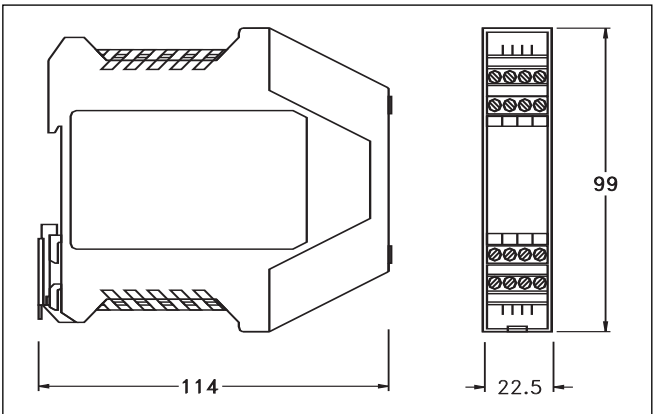
Operating temperature	-25°C ... + 55°C
Storage temperature	-25°C ... + 65°C

## Mechanical Specifications

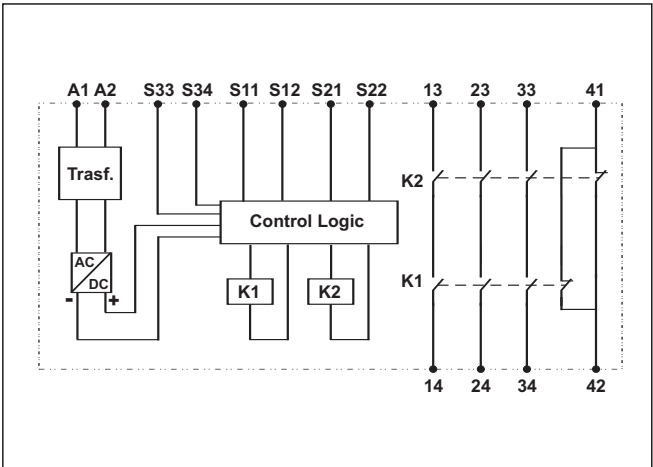
<b>Protection degree terminals</b>	IP 20	<b>Max cross section of external conductors</b>	2.5 mm <sup>2</sup> rigid wire 2.5 mm <sup>2</sup> flexible wire
<b>Protection degree housing</b>	IP 40	<b>Dimensions</b>	22.5 x 99 x 114 mm
<b>Housing material</b>	Polyamid PA6.6	<b>Weight</b>	
<b>Housing type</b>	22.5 mm housing models	NA13D	170 g
<b>Mounting</b>	DIN rail	NA13D230CG, NA13D110CG	238 g



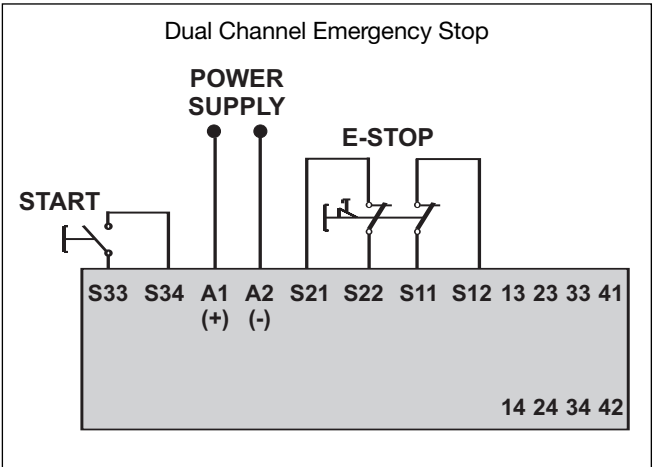
Dimensions



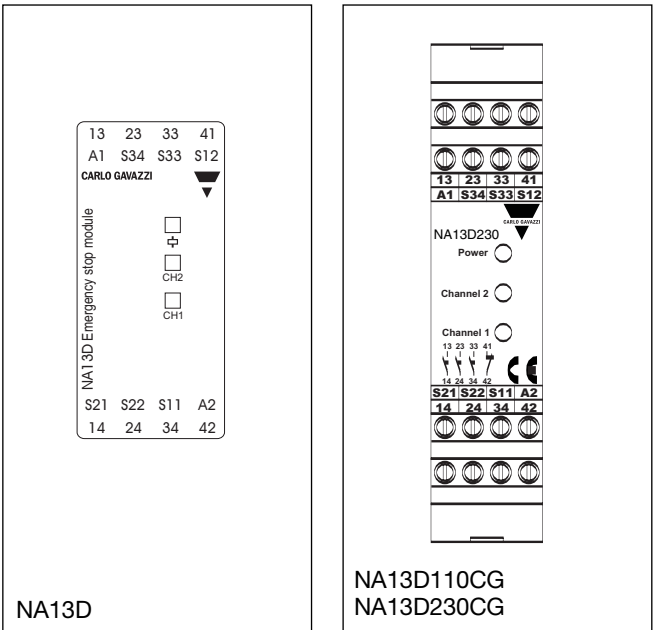
Wiring Diagrams



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 (NO)
23-24	Second safety output (NO)
33-34	Third safety output (NO)
41-42	Auxiliary output (NC)