

Extension Modules NE1/4-D, NE1/4-D/230

CARLO GAVAZZI



- 4 NO safety outputs
- 1 NO feedback output
- 24 Vac / Vdc, 110 or 230 Vac power supply
- Suitable for application up to safety category 4 according to EN 954-1
- Approvals:



Product Description

Extension module according to EN 60204-1, EN202/1 and /2, EN 418, EN 1088 and EN 954-1. The zero delay extension modules increase the number of safety outputs. They must be used in conjunction with

a safety module and allow to keep the same safety category. They also provide a NC feedback output to control the internal force guided relay integrity.

Ordering Key

NE1/4-D/230

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

Type Selection

Power supply	References
24 VAC/VDC	NE1/4-D
110 VAC	NE1/4-D/110
230 VAC	NE1/4-D/230

Electrical Specifications

Power supply	NE1/4-D	24 Vac -15/+10% 50-60 Hz
	NE1/4-D/110	24 Vdc -15/+10%
	NE1/4-D/230	110 Vac -15/+10% 50-60 Hz
		230 Vac -15/+10% 50-60 Hz
Power consumption	4 VA / 4 W	
Input current/voltage	150mA @24Vdc, without load	
Safety outputs	4 NO	
Auxiliary outputs	1 NC Relay	

Switching voltage/ current /capability

NE1/4-D	24 Vdc / 6A / 2000 VA
NE1/4-D/110	110 Vac / 6A / 2000 VA
NE1/4-D/230	230 Vac / 6A / 2000 VA
Contact fuse protection	6 A fast or 4 A delayed
Insulation voltage	Pollution degree: 2 Overvoltage Cat.: 3/250 V Basis insulation: Overvoltage category: 3/250 V

Time Specifications

Delay on energisation	150 ms
Delay on de-energisation	< 30 ms
Channel simultaneity	∞

Environmental Specifications

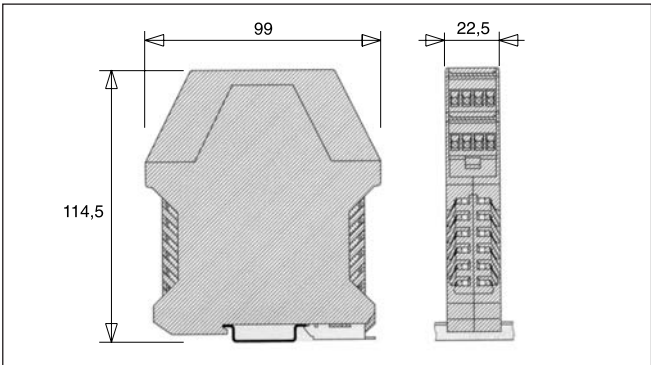
Operating temperature	-25°C to+ 55°C
Storage temperature	-25°C to + 65°C

Mechanical Specifications

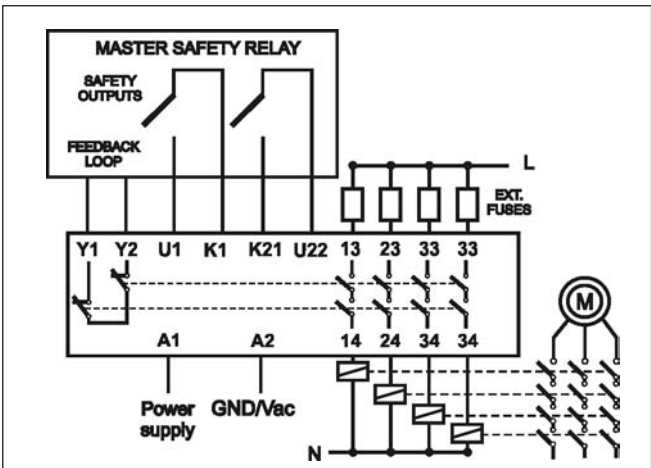
Protection degree terminals	IP 20
Protection degree housing	IP 40
Housing material	Polyamid PA6.6
Housing type	22.5 housing models
Mounting	DIN rail

Max cross section of external conductors	2.5 mm ² flexible wire 2.5 mm ² rigid wire
Dimensions (H x W x D)	99x22.5x114.5 mm
Weight	NE1/4-D 170 g NE1/4-D/110 240 g NE1/4-D/230 240 g

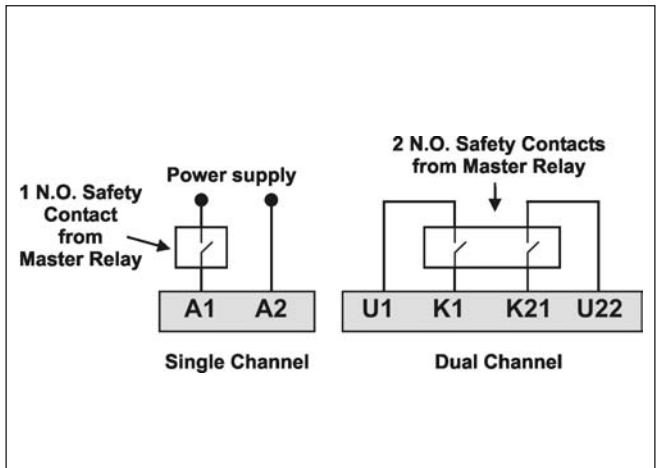
Dimensions



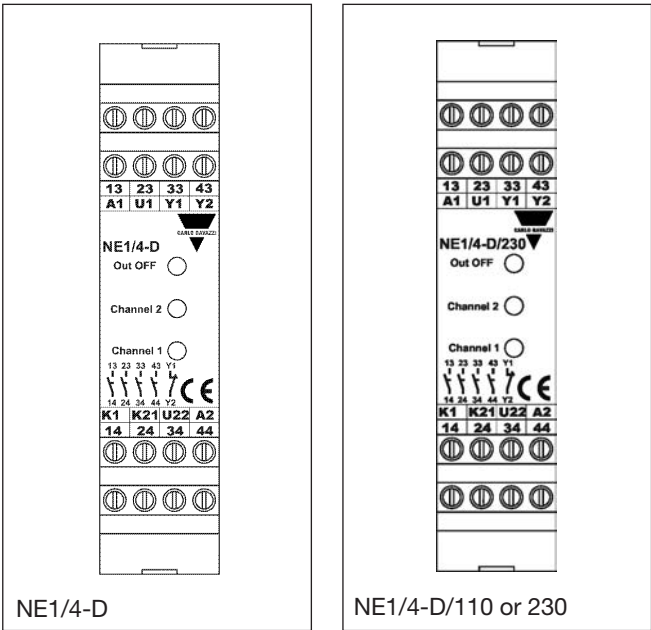
Wiring Diagrams



Application



Connection Sample



Connections

Terminal Function	Connection
A1	+24 Vdc or AC supply
A2	GND or AC supply
U1-K1	First input channel (N.O. Safety contact from the master relay)
K21-U22	Second input channel (N.O. Safety contact from the master relay)
Y1-Y2	FEEDBACK output (to connect to the master relay)
13-14	First safety output (N.O.)
23-24	Second safety output (N.O.)
33-34	Third safety output (N.O.)
43-44	Fourth safety output (N.O.)