Extension Modules
NE14D

CARLO GAVAZZI

- **4 NO safety outputs**
- **1 NO feedback output**
- **24 VAC / VDC, 110 VAC or 230 VAC power supply**
- **Suitable for application up to safety category 4 according to EN 954-1**
- **Approvals: TÜV NORD, UL**

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

NE14 D 230

- **Housing**
- **Application**
- **Controlled Devices**
- **Safety Outputs**
- **Safety Category**
- **Power Supply**

Type Selection

Power supply	References
24 VAC/VDC	**NE14D**
110 VAC	**NE14D110CG**
230 VAC	**NE14D230CG**

Electrical Specifications

Power supply	
NE14D	24 VAC –15/+10% 50-60 Hz 24 VDC –15/+10%
NE14D110CG	110 VAC –15/+10% 50-60 Hz
NE14D230CG	230 VAC –15+10% 50-60 Hz
Power consumption	4 VA /4 W
Input current/voltage	150mA @24VDC
Safety outputs	4 NO
Auxiliary outputs	1 NC Relay

Switching voltage/ current /capability	24 VDC, 230 VAC 6 A / 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

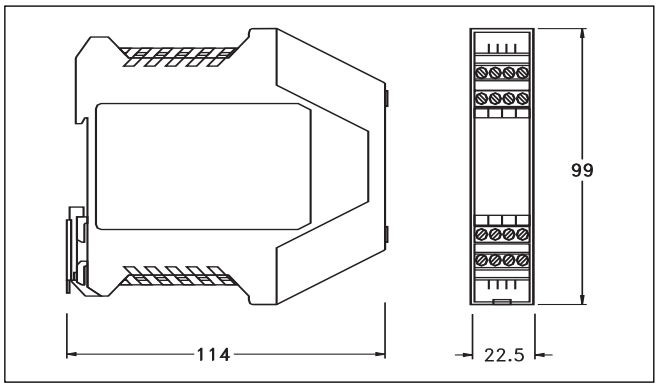
Operating temperature	-25°C ... + 55°C
Storage temperature	-25°C ... + 65°C

Mechanical Specifications

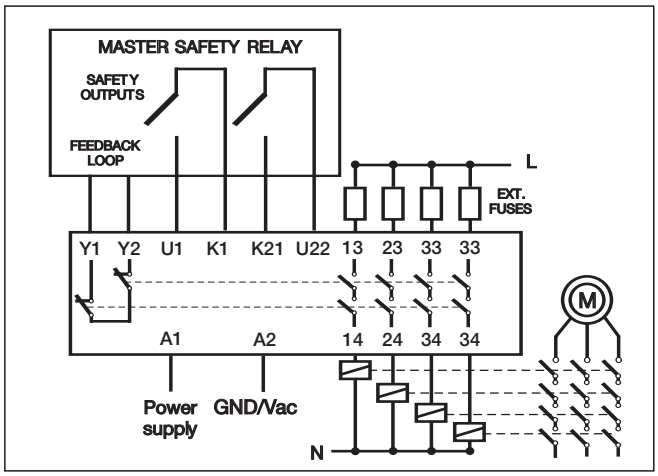
Protection degree terminals	IP 20
Protection degree housing	IP 40
Housing material	Polyamid PA6.6
Housing type	22.5 housing models
Mounting	DIN rail

Max cross section of external conductors	2.5 mm² flexible wire 2.5 mm² rigid wire
Dimensions	22.5 x 99 x 114 mm
Weight NE14D	170 g
NE14D110CG, NE14D230CG	240 g

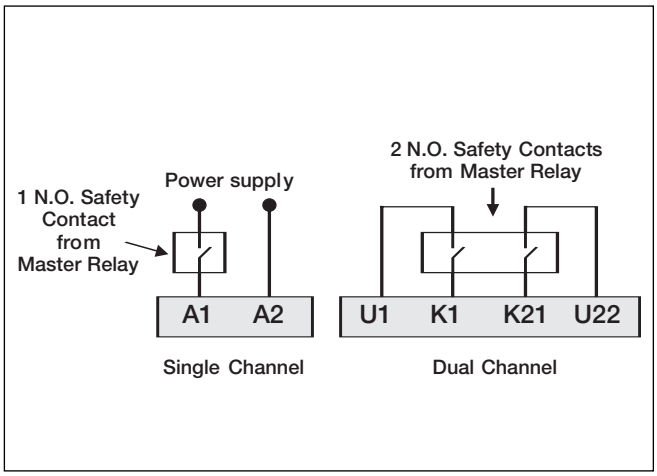
Dimensions



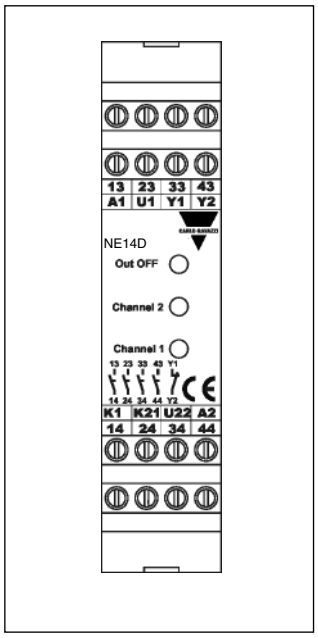
Wiring Diagrams



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.)