

Extension Modules NE14DCG

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- 4 NO safety outputs
- 1 NC 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, cULus

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 CG

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

Type Selection

Power supply	References
24 VAC/VDC	NE14DCG
110 VAC	NE14D110CG
230 VAC	NE14D230CG

Electrical Specifications

Power supply	NE14DCG	24 VAC -15/+10% 50-60 Hz 24 VDC -15/+10%	Feedback output		
	NE14D110CG	110 VAC -15/+10% 50-60 Hz	Resistive loads	AC1	5 A @ 230 V
	NE14D230CG	230 VAC -15/+10% 50-60 Hz	Small inductive loads	AC15	1.5 A @ 230 V
Power consumption		4 VA / 4 W	Contact fuse protection		6 A fast or 4 A delayed
Safety outputs		4 NO	Insulation voltage		Pollution degree: 2 Overvoltage Cat.: 3/250 V
Feedback outputs		1 NC			24 VAC/DC xxx AC
Contact ratings			Supply to input		none 4 kV 1.2/50µs
Safety output			Supply to output		4 kV 1.5/50µs 4 kV 1.2/50µs
Resistive loads	AC1	8 A @ 230 VAC	Input to output		4 kV 1.5/50µs 4 kV 1.2/50µs
Small inductive loads	AC15	3 A @ 230 VAC			
	DC13	4 A @ 24 VDC			

Time Specifications

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

Environmental Specifications

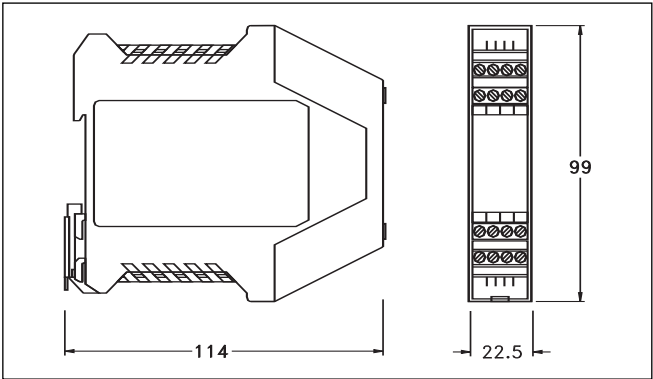
Operating temperature	-25°C ... + 55°C
Storage temperature	-25°C ... + 65°C

Mechanical Specifications

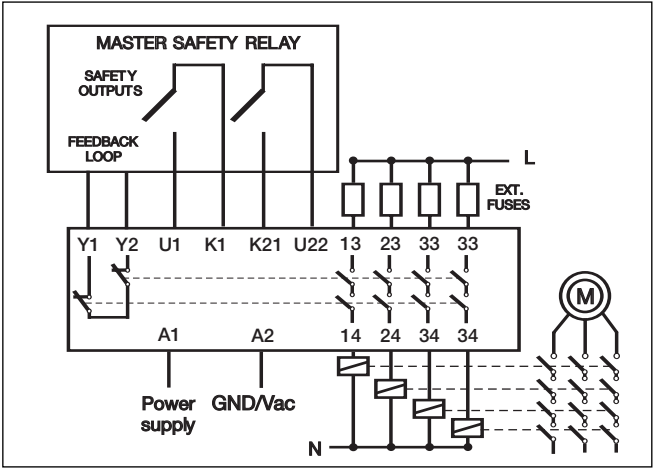
Protection degree terminals	IP 20	Max cross section of external conductors	2.5 mm ² flexible wire 2.5 mm ² rigid wire
Protection degree housing	IP 40	Dimensions	22.5 x 99 x 114 mm
Housing material	Polyamid PA6.6	Weight	NE14DCG 170 g
Housing type	22.5 housing models	NE14D110CG, NE14D230CG	240 g
Mounting	DIN rail		



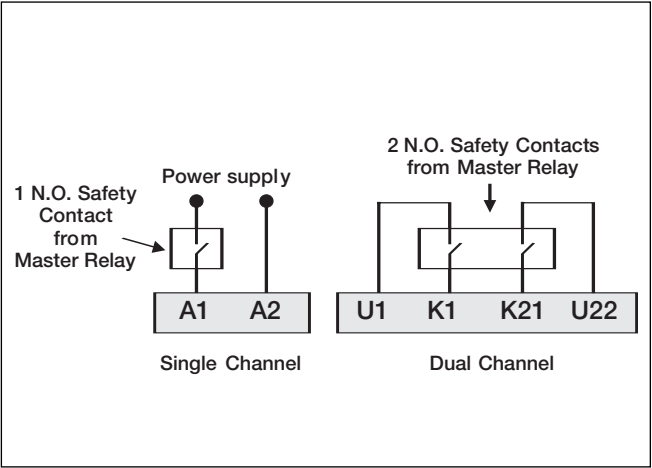
Dimensions



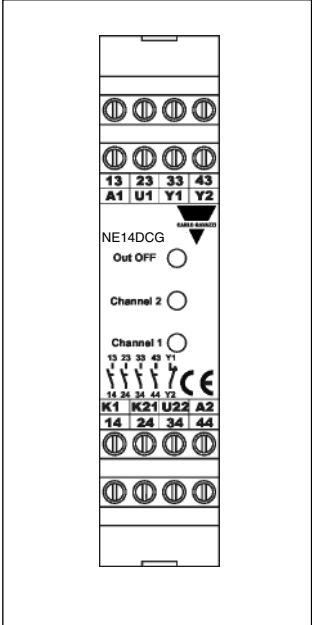
Wiring Diagrams



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.)