

GELBAU - CONTROL UNIT B412.0

30B4.1206

Cat.1 Resistance Evaluator 24Vdc 1x N/O Contact



- Compact enclosure, only 22.5 mm
- 1 NO output
- Automatic reset
- Safety category 1 in accordance with EN954-1





PRODUCT DESCRIPTION




Small control unit for the monitoring of sensing strips in less dangerous applications. It fulfils safety category 1 which means that it may only be used in applications in which the risk of injury is only for slight, normally reversible injuries. If there is any doubt select one of the control units on the following pages. A low current is transmitted from the unit's connectors (Z1 & Z2) through the sensing strip, and a closed circuit is formed via a resistor (8.2 k Ω). The control unit output cuts the power if anyone/anything presses the sensing strip and also following a short-circuit or open circuit.

TECHNICAL DATA

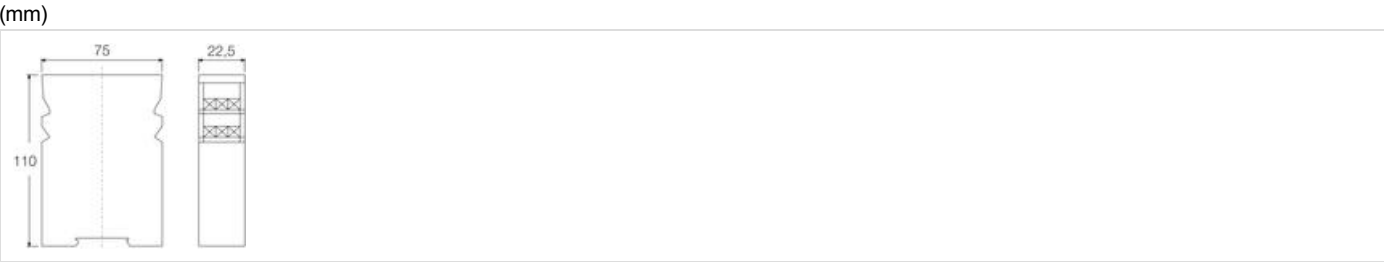
Supply voltage		24 V AC/DC, 230 V AC
Tolerance		-15 % to +10 %
Consumption (operation)		3 W
Relay outputs:	Safe	1 NO (single)
Max. contact voltage		250 V AC/24 V DC
Max. contact current		4 AAC/DC
Fuse outputs		4 A
Disconnection time		10 ms
Max. length of sensing strip		100 m
Max. cable length to the sensing strip		50 m (min. 0.5 m ²)
Status indication		3xLED
Ingress protection class:	Terminal block	IP20
	Enclosure	IP40
Ambient temperature		-20 °C to +55 °C
Installation		DIN rail
Mechanical service life		3x10 ⁷
Safety category		1 in accordance with EN954-1
Standard		EN1760-2

Conforming to	MD, LVD, EMC
Approvals	 

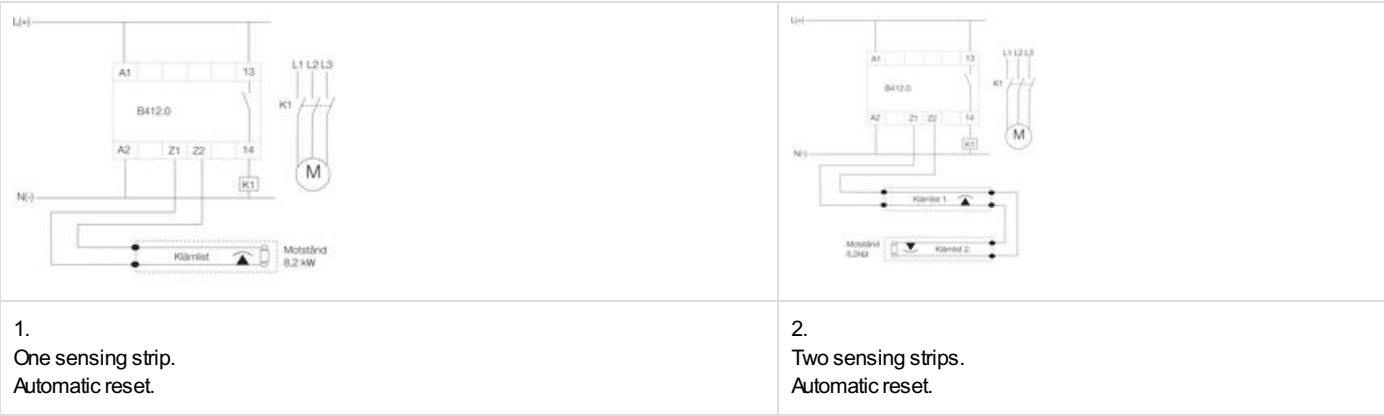
Technical characteristics

Depending on safety requirements		
• Force guided contacts		
• Internal/external redundancy		
User benefits	Status indication	
• Safety category 1 in accordance with EN954-1		Strip activated
• Small installation dimensions		Fault in the safety circuit
• LED status indication		Output activated

DIMENSIONS



CONNECTION



ORDER NUMBER

Order no.	Description
30B4.1200	Control unit, resistor, 1 NO, cat. 1, 230 V AC
30B4.1201	Control unit, resistor, 1NO, cat. 1, 115 V AC
30B4.1204	Control unit, resistor, 1 NO, cat. 1, 24 V AC
30B4.1206	Control unit, resistor, 1 NO, cat. 1, 24 V DC

SPECIFICATIONS

Approvals	CE, TÜV NORD
Cable length to clip list max	50 m (min. 0,5 m2)
Contact current max	4 A AC/DC
Contact voltage max	250 V AC/24 V DC
Disconnection	10 ms
Fuse output	4 A
In compliance with	EMC, LVD, MD
IP class connection	IP20
IP class of housing	IP40
Mounting	DIN rail
PL	c enI.SS-EN ISO 13849-1
Power consumption	3 W
Supply voltage	24 V DC
Temperature ambient from	-20 °C
Temperature ambient to	55 °C
Terminal strip length max	100 m
Tolerance max	10 %
Tolerance min	-15 %

