

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 A AC/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

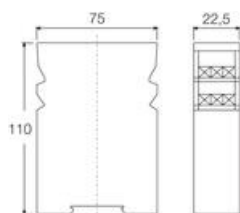
- Safety category 1 in accordance with EN954-1
- Small installation dimensions
- LED status indication

Status indication

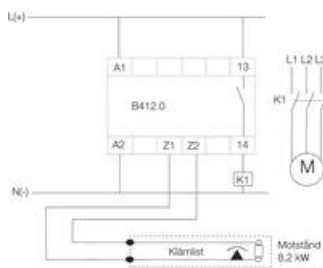
-  Strip activated
-  Fault in the safety circuit
-  Output activated

Dimensions

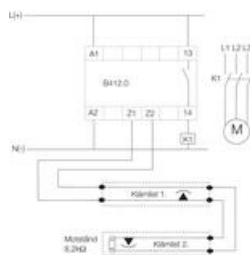
(mm)



Connection



1. One sensing strip.
Automatic reset.



2. Two sensing strips.
Automatic reset.

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)
Conforming To	EMC, LVD, MD
Contact Current Max	4 A AC/DC
Contact Voltage Max	250 V AC/24 V DC
Disconnection	10
Fuse output	4
IP Class Connection	IP20
IP Class House	IP40
Mounting	DIN rail
PL	c enl.SS-EN ISO 13849-1
Power Consumption	3
Supply voltage	24 V DC
Temperature ambient from	-20
Temperature ambient to	55
Terminal Strip Length Max	100
Tolerance max	10
Tolerance min	-15

