

## Technical data

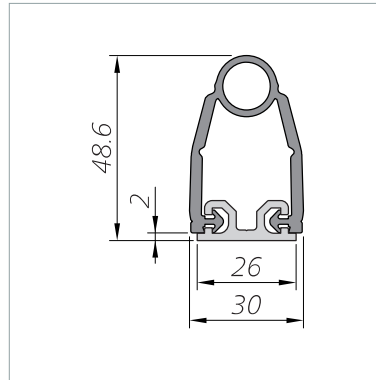
### GP 48-2 NBR with C 26

Normally closed safety edge SL NC II consisting of sensor and aluminium profile from the profile range C 26.

<b>Testing basis</b>	
ISO 13856-2	
<b>Switching characteristics at <math>v_{\text{test}} = 200 \text{ mm/s}</math></b>	
Switching operations	>10,000
Actuation force	
Test piece (cylinder) Ø 80 mm	< 150 N
Actuation distance	
Test piece (cylinder) Ø 80 mm	12 mm
Actuation angle	
Test piece (cylinder) Ø 80 mm	60°
Response time	60 ms
Finger detection	yes
<b>Safety classifications</b>	
ISO 13856: Reset function	without
ISO 13849-1:2015	Category 3 PL d
$B_{10D}$ (Sensor)	$2 \times 10^6$
<b>Mechanical operating conditions</b>	
Sensor length (min./max.)	30 cm / 6 m
Cable length (min./max.)	1.5 m / 100 m
Bend radii	not possible
Operating speed	
(min. / max.)	10 mm/s / 200 mm/s
max. load capacity	600 N
IEC 60529: Degree of protection	IP67
Humidity (max. at 23 °C)	95 % (non-condensing)
Operating temperature	+5 to +55 °C
Storage temperature	-20 to +80 °C
Weight	1.0 kg/m
<b>Electrical operating conditions</b>	
Contact transition resistance (max.)	5 Ohm
Number of sensors type BK	max. 10 in series
Switching voltage (PELV) (max.)	48 V DC
	48 V AC 50/60 Hz
Protection class	III
Switching current (max.)	20 mA
Contact fuse protection, external	250 mA slow-acting
Connection cable	Ø 3.3 mm PVC 1x 0.5 mm <sup>2</sup>

## Dimensions and distances

GP 48-2 NBR (1:2)



Dimensional tolerances according to ISO 3302 E2/L2.

### Test conditions

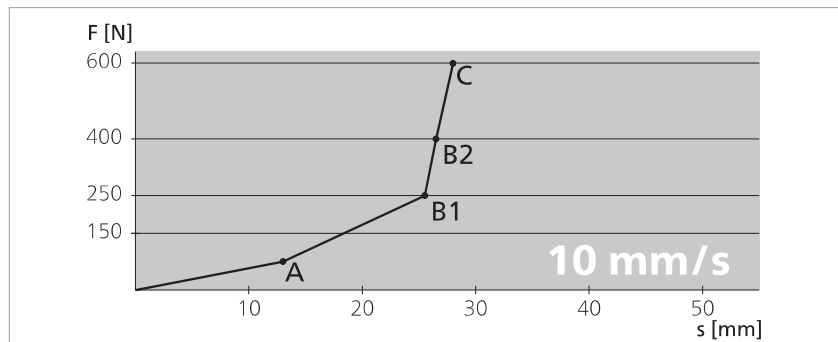
according to ISO 13856-2

- Installation position B
- Temperature +20 °C
- Measurement point c3
- Test sample 1 with Ø 80 mm
- without control unit

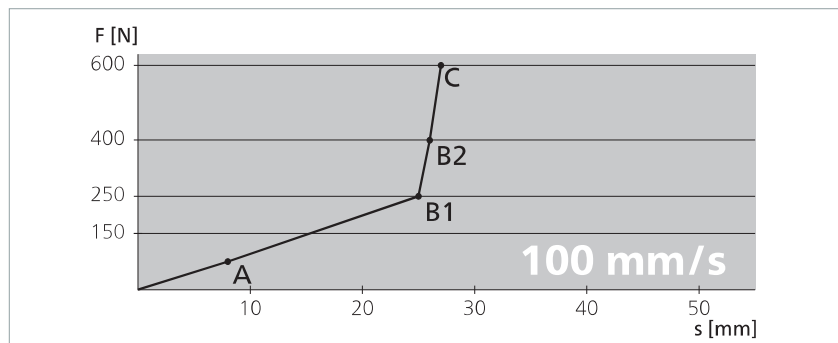
All data stated here is documented in EC design type test certificates.

### Force-distance ratios

Actuation force	69 N
Response time	1300 ms
Actuation distance (A)	13 mm
Overtravel distance	
up to 250 N (B1)	12.4 mm
up to 400 N (B2)	13.5 mm
up to 600 N (C)	14.9 mm
Total deformation	27.9 mm



Actuation force	71 N
Response time	83 ms
Actuation distance (A)	8.3 mm
Overtravel distance	
up to 250 N (B1)	16.8 mm
up to 400 N (B2)	17.7 mm
up to 600 N (C)	18.9 mm
Total deformation	27.2 mm



Actuation force	71 N
Response time	60 ms
Actuation distance (A)	12 mm
Overtravel distance	
up to 250 N (B1)	13.2 mm
up to 400 N (B2)	14.1 mm
up to 600 N (C)	15.2 mm
Total deformation	27.2 mm

