

XL-CP74A30x

Part No: various

ExpertSystem XL

Safety edge / Contact profile

This datasheet provides technical data about single parts of the ExpertSystem XL safety edge family. Safety edges (also called sensors) are part of pressure-sensitive edge systems according to EN ISO 13856-2. A pressure-sensitive edge system consists of a safety edge and a control unit and its intended use is for pressure-sensitive protection systems.

Contact profile data

| | |
|---|-----------------------------|
| Designation / Art. No. | XL-CP74A / 389109 |
| Dimensions in mm (Tolerances acc. to DIN ISO 3302-1 tl. E2) | H 74 x W 37 |
| Contact profile material | EPDM, non-conductive, black |
| Hardness | 70 Shore A (+/- 5) |
| Switching contact material | EPDM, conductive |
| Delivery length | max. 25 m |
| Weight per meter | 0.89 kg/m |

Mounting profiles data

| Designation | XL-AP30 | XL-AP3020 | XL-AP30Q | XL-AP3020Q |
|-------------------|-------------|------------------|-------------|------------------|
| Art. No. | 402162 | 409584 | 412005 | 412007 |
| Material / Finish | Al / nature | Al / anod. black | Al / nature | Al / anod. black |
| Weight per meter | 0.29 kg/m | 0.38 kg/m | 0.26 kg/m | 0.35 kg/m |
| Delivery length | max. 6.1 m | | | |

Safety edge data

| | |
|---|---|
| Designation / Art. No. | XL-CP74A30x / various, see brochure |
| Single sensor, length (min. / max.) | 0.3 m / 20 m |
| Cable length, max. | 40 m |
| Combined single sensors: max. number / sensor length in total / cable length in total | 4 sensors / 20 m / 40 m |
| Mounting orientations | All orientations |
| Effective sensing surface (Figure A) | X = 34 mm / Z = 40 mm $\alpha = 150^\circ$ / L = sensor length |
| Actuating distance / Pre-travel (A / 200mm/s)* | < 4 mm |
| Actuating force (A / 200mm/s)* | < 45 N |
| Overtravel at 250 N (B1)* | > 41 mm |
| Overtravel at 400 N (B2)* | > 42 mm |
| Total travel at 600 N (C)* | > 48 mm |
| Operating temperature | -20°C to 60°C |
| Switching cycles | > 10'000 |
| Degree of protection | IP67 |
| Max. voltage | 24 V ACDC |
| Continuous current load at max. voltage | 10 mA |
| Actuation resistance (typical / max.) | 50 - 150 Ohm / 500 Ohm |
| Standards | EN ISO 13856-2 / EN 12978 |
| EC type examination certificate No. | E 7194 (Suva) |

* Acc. to EN ISO 13856-2; Test piece \varnothing 80 mm; Test location c3; Test speed (A) 200 mm/s; Temp. 20°C
The actuating force and the deformation travels depend on the response time of the used signal processing unit. If the integrated radio transmitter XRF-TI is used, the overtravel and total travel values are reduced by 8mm, where the XRF-TI is located.

