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-T fl. 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
- 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 AC/DC
- 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 Ø 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.

**Force-Travel Diagram, v = 200mm/s (A)**

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**Figure A**

- X = 34 mm
- Z = 40 mm
- α = 150°
- 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
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