### XL-CP56B36x

**ExpertSystem XL**

Sensor for pressure-sensitive edges

A pressure-sensitive edge according to EN ISO 13856-2 consists of a sensor and a safety switching device and its intended use is for pressure-sensitive protection systems. This datasheet provides technical data about parts and sensors of the ExpertSystem XL family.

#### Contact profile data

- **Designation / Art. No.**: XL-CP56B / 430672
- **Dimensions in mm (Tolerances acc. to DIN ISO 3302-1 tl. E2)**: H 56 x W 41 (Lip H 13)
- **Contact profile material**: EPDM, non-conductive, black
- **Hardness**: 75 Shore A (+/- 5)
- **Switching contact material**: EPDM, conductive
- **Delivery length**: Max. 25 m
- **Weight per meter**: 0.770 kg/m

#### Mounting profiles data

<table>
<thead>
<tr>
<th>Designation</th>
<th>XL-AP36</th>
<th>XL-AP3620</th>
<th>XL-AP36Q</th>
<th>XL-AP3620Q</th>
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</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>402163</td>
<td>409585</td>
<td>412006</td>
<td>412008</td>
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<tr>
<td>Material / Finish</td>
<td>Al / nature</td>
<td>Al / anod. black</td>
<td>Al / nature</td>
<td>Al / anod. black</td>
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<tr>
<td>Weight per meter</td>
<td>0.36 kg/m</td>
<td>0.45 kg/m</td>
<td>0.33 kg/m</td>
<td>0.42 kg/m</td>
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<tr>
<td>Delivery length</td>
<td>max. 6.1 m</td>
<td></td>
<td></td>
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</table>

#### Sensor data, determined with an 8.2 kΩ terminal resistor

- **Designation / Art. No.**: XL-CP56B36x / 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 = 36 mm / Z = 20 mm / α = 90°
- **Actuating distance / Pre-travel (A / 200mm/s)**: < 17 mm
- **Actuating force (A / 200mm/s)**: < 80 N
- **Overtravel at 250 N (B1)**: > 24 mm
- **Overtravel at 400 N (B2)**: > 25 mm
- **Total travel at 600 N (C)**: > 45 mm
- **Operating temperature**: -20°C to 60°C
- **Switching cycles**: > 10'000
- **Degree of protection**: IP67 (EN 60529)
- **Endresistor value / type (see datasheet of XL accessory parts)**: 8.2 kΩ / XL-RP8
- **Max. voltage**: 24 V AC/DC
- **Continuous current load at max. voltage**: 10 mA
- **Actuation resistance (typical / max.)**: 50 - 150 Ω / 500 Ω
- **Standards**: EN ISO 13856-2 / EN 12978

### Force-Travel Diagram

![Force-Travel Diagram](image)

**F [N]**  
**s [mm]**  
**C**  
**B2**  
**B1**  
**A**  
**v = 200mm/s (A)**

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*Acc. to EN ISO 13856-2; Test piece Ø 80 mm; Test location c3; Test speed (A) 200 mm/s; Temp. 20°C.*

*The contact of the test piece with the lip is the zero point for the specified force travel relationship.*

*The acting force and the deformation travels depend on the response time of the used safety switching device.*