

# EL45x99A1x

Part No: various

## ExpertLine

## Safety edge / Contact profile

This datasheet provides technical data about single parts of the safety edge family ExpertLine. 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.                                      | EP45x99A1 / 389087          |
| Dimensions in mm (Tolerances acc. to DIN ISO 3302-1 tl. E2) | 44 x 99                     |
| Contact profile material                                    | EPDM, non-conductive, black |
| Hardness  | 70 Shore A (+/- 5)          |
| Switching contact material                                  | EPDM, conductive            |
| Delivery length   | max. 25 m                   |
| Weight, contact profile                                     | 1.28 kg/m                   |
| Mounting profile  | AP-G1, aluminium            |
| Weight, mounting profile                                    | 0.33 kg/m                   |

### Safety edge data

|   |   |
|---|---|
| Designation / Art. No.  | EL45x99A1x / 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 = 59 mm / Z = 40 mm<br>$\alpha = 150^\circ$ / L = sensor length |
| Actuating distance / Pre-travel (A / 200mm/s)*  | < 3 mm  |
| Actuating force (A / 200mm/s)*  | < 40 N  |
| Overtravel at 250 N (B1)*   | 70 mm   |
| Overtravel at 400 N (B2)*   | 74 mm   |
| Total travel at 600 N (C)*  | 79 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 7195 (Suva)   |

\*Acc. to EN ISO 13856-2; Test piece Ø 80 mm; Test location c3; Test speed (A) 200 mm/s; Temp. 23°C

