

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 $\alpha = 150^\circ$ / 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

