

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 pressuresensitive 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.

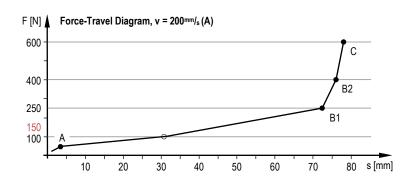
Contact profile data	
Designation / Art. No.	EP45x99A1 / 389087
Dimensions in mm (Tolerances acc. to DIN ISO 3302-1 tl. E2)	44 x 99
Contact profile material	EPDM, non-conductive, black
Hardness	70 Shore A (+/- 5)
Switching contact material	EPDM, conductive
Delivery length	max. 25 m
Weight, contact profile	1.28 kg/m
Mounting profile	AP-G1, aluminium
Weight, mounting profile	0.33 kg/m

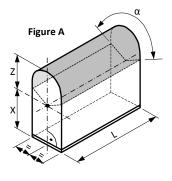
Safety edge data	
Designation / Art. No.	EL45x99A1x / various, see brochure
Single sensor, length (min. /max.)	0.3 m / 20 m
Cable length, max.	40 m
Combined single sensors: max. number /	4 sensors /
sensor length in total / cable length in total	20 m / 40 m
Mounting orientations	All orientations
Effective sensing surface (Figure A)	X = 59 mm / Z = 40 mm
	α = 150° / 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)



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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. 23°C