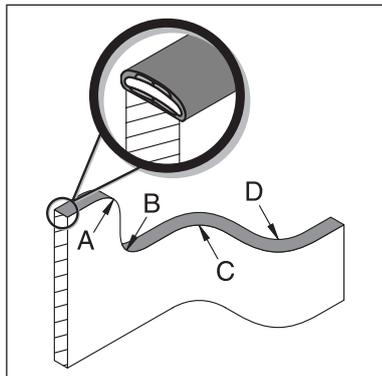


## Technical data

Safety Element SE 1 TPE manufactured  
with resistor for 2-wire technology or  
without resistor for 4-wire technology.



Bend radii:



<b>Switching characteristics at <math>v_{\text{test}} = 50 \text{ mm/s}</math></b>	
Switching operations	$> 1 \times 10^5$
Actuating force	<b>+23 °C</b> <b>-25 °C</b>
Test piece (rod) Ø 4 mm	$< 20 \text{ N}$ $< 30 \text{ N}$
Test piece (rod) Ø 200 mm	$< 30 \text{ N}$ $< 50 \text{ N}$
Switch travel	
Test piece (cylinder) Ø 80 mm	$< 3.0 \text{ mm}$
Actuation angle	
Test piece (cylinder) Ø 80 mm	$< 50^\circ$
<b>Mechanical operating conditions</b>	
Safety Element length (min./max.)	100 mm / 50 m
Bend radii, minimum	
A / B / C / D	350 / – / – / – mm
Tensile load, cable (max.)	60 N
IEC 60529: Degree of protection	IP65
Operating temperature	
short-term	-25 to +80 °C
	-40 to +100 °C
Behaviour in fire	
as per DIN 75200	ca. 40 mm/min
also complies with	limit values of the StVZO, TA 29
<b>Electrical operating conditions</b>	
Terminal resistance 8k2	$\pm 3\%$
Output	max. 250 mW
Contact transition resistance	$< 400 \text{ Ohm}$ (per sensor)
Several Safety Elements	5 in series max.
Switching capacity (max.)	250mW
Electrical rating	
Voltage (max.)	DC 24 V
Current (min./max.)	1 mA / 30 mA
Connection cable	Ø 3.7 mm TPE 2x 0.22 mm <sup>2</sup>
<b>Chemical resistance (see page 3)</b>	
	The Safety Element is resistant to normal chemical influences over a period of exposure of 24 hours (see p. 3).
<b>Dimensional tolerances</b>	
Length as per	ISO 3302 L2
Profile section as per	ISO 3302 E2