



Product Information



DIY SE 1 TPE spring contact

MAYSER° GmbH & Co. KG

Polymer Electric Örlinger Straße 1–3 89073 Ulm GERMANY

Tel. +49 731 2061-0 Fax +49 731 2061-222 E-Mail: info.ulm@mayser.de Internet: www.mayser.com



Materials list

Part no.	Designation	PE	
7500270	Contact tube SE 1 TPE, 18 mm	50 m	
1004064	Spring contact PCB with 0.4 m cable incl. end cap and sealing ring (round)	10 pcs.	
1004065	Spring contact PCB with 2.5 m cable incl. end cap and sealing ring (round)	10 pcs.	
1004063	Spring contact PCB with resistor 8k2	10 pcs.	
7501212	End cap for resistor end	10 pcs.	
1002606	Sealing ring (oval)	20 pcs.	
7501927	Tongs with tool insert for sealing rings	1 pc.	
7501928	Service case with tongs 7501927 and Assembly Instructions 7501800 and 7501801	1 pc.	
7501800	Assembly instructions, German	1 pc.	
7501801	Assembly instructions, English	1 pc.	
7501931	Assembly instructions, French	1 pc.	

Application

The complete Safety Element SE 1 TPE is inserted into a suitable rubber profile and is optimized for the rubber profiles GP 38, GP 58, GP 68 and GP88.

If another rubber profile is used, it is to be ensured that the rubber profile does not exert any pressure on the contact tube in the unloaded state.

If the Safety Element SE 1 TPE is used without a rubber profile, secure attachment is to be ensured.

Resistances

Physical resistance

Safety Element SE 1	TPE
IEC 60529: Degree of protection	IP65
Hardness as per Shore A	55 ±5

Subject to technical modifications.



Chemical resistance

The Safety Element is resistant against normal chemical influences such as diluted acids and alkalis as well as alcohol over an exposure period of 24 hrs.

The information in the table are results of tests carried out in our laboratory to the best of our knowledge and belief. The suitability of our products for your special area of application must always be verified with your own practical tests.

Safety Element SE 1	TPE
Acetone	-
Formic acid	-
Armor All	+
Car shampoo	+
Petrol	-
Brake fluid	+
Buraton	+
Butanol	-
Sodium hypochlorite	-
Disinfectant	+
Diesel	-
Acetic acid 10 %	-
Ethanol	+
Ethyl acetate	-
Ethylene glycol	+
Greases	±
Anti-frost agent	+
Skin cream	+
Icidine	+
Incidin	+
Incidin plus	+
Cooling lubricant	-
Plastic cleaner	+
Lyso FD 10	+
Metal working oil	-
Microbac	+
Microbac forte	+
Minutil	+
Saline solution 5 %	+
White spirit (ethyl alcohol)	+
Terralin	+
UV-resistance	+
Centring oil	-

Explanation of symbols:

+ = resistant

± = partially resistant

- = not resistant

Note:

Tests are carried out at room temperature (+23 °C).

Subject to technical modifications.

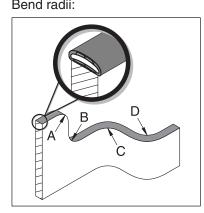


Technical data

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



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Switching characteristics at v _{test} = 50 mm/s					
Switching operations	> 1× 10 ⁵				
Actuating force	+23 °C	-25 °C			
Test piece (rod) Ø 4 mm	< 20 N	< 30 N			
Test piece (rod) Ø 200 mm	< 30 N	< 50 N			
Switch travel					
Test piece (cylinder) Ø 80 mm	< 3.0 mm				
Actuation angle					
Test piece (cylinder) Ø 80 mm	< 50°				
Mechanical operating conditions					
Safety Element length (min./max.)	100 mm / 50 m				
Bend radii, minimum	100 111111 / 30 111				
A / B / C / D	350 / – / – / – mm				
Tensile load, cable (max.)	60 N	1			
IEC 60529: Degree of protection	IP65				
Operating temperature	-25 to +80 °C				
short-term	-40 to +100 °C				
Behaviour in fire	-40 to +100 C				
as per DIN 75200	ca. 40 mm/min				
also complies with	limit values of the StVZO, TA 29				
Electrical operating conditions	minit values of the	701720, 17120			
Terminal resistance 8k2	± 3%				
Output	/ -				
Contact transition resistance	max. 250 mW				
Several Safety Elements	< 400 Ohm (per sensor)				
Switching capacity (max.)	5 in series max. 250mW				
Electrical rating	25011100				
Voltage (max.) Current (min./max.)	1 mA / 30 mA				
Connection cable	Ø 3.7 mm TPE 2× 0.22 mm ²				
Connection capie	Ø 3.7 IIIII IPE 2.	X U.22 IIIII-			
Chemical resistance (see page 3)					
	The Safety Eleme	ent is resistant			
	to normal chemic	al influences			
	over a period of e	exposure of 24			
	hours (see p. 3).				
Dimensional tolerances					
Length as per	ISO 3302 L2				
Profile section as per	ISO 3302 E2				