



## Safety steps TS for buses & trains



EN | Data sheet

### Mayser GmbH & Co. KG

Örlinger Straße 1-3

89073 Ulm

GERMANY

Phone: +49 731 2061-0

Fax: +49 731 2061-222

E-mail: [info.ulm@mayser.com](mailto:info.ulm@mayser.com)

Internet: [www.mayser.com](http://www.mayser.com)

## Technical data

<b>Testing basis</b>	VDV 157	
<b>Switching characteristics at <math>v_{\text{test}} = 250 \text{ mm/s}</math></b>		
Switching operations at 0.1 A	$> 3 \times 10^6$	
Actuation force	<b>+23 °C</b>	
Test sample 1 Ø 40 mm	$\leq 150 \text{ N}$	
Tolerance	20 to 149 N	
<b>Safety classifications</b>		
ISO 13849-1: B <sub>10D</sub>	$6 \times 10^6$	
<b>Mechanical operating conditions</b>		
Static load (up to 8 h)	max. 800 N/cm <sup>2</sup>	
IEC 60529: Degree of protection	IP67	
Weight (Switch + Coating)	approx. 12 kg/m <sup>2</sup>	
Operating temperature	as agreed	
EN 50125-1: max. humidity 23 °C	95 % $\pm 5$ %	
ISO 7619-1: Hardness as per Shore	A 64 $\pm 5$	
Surface (coating)	round nub coating	non-slip coating
Slip resistance class in accordance with DIN 51130, with tap water as the slip agent	R10	R11
with oil as the slip agent	R10	R10
EN 45545-2: Fire behaviour		
Hazard level	HL2	HL2
R phrase	R10	R10
Cable		
EN 45545-2: Fire behaviour		
Hazard level	HL3	
R phrase	R15 / R16	
Sizes	on customer request	
Non-sensitive edge zone (surrounds the effective actuation area)		
on side with cable connection	30 mm	
on all other sides	15 mm	
Colour	black, yellow, orange (others on request)	
Maintenance	maintenance-free	
<b>Electrical operating conditions</b>		
Terminal resistance ( $\pm 1$ %)	1k2, 8k2 (others on request)	
Rated power	250 mW	
Contact transition resistance	$< 400 \text{ Ohm}$ (per sensor)	
Switching current (min./max.)	1 mA / 100 mA	
Connection cable	$\text{Ø } 5.0 \pm 0.3 \text{ mm}$ , $2 \times 0.75 \text{ mm}^2$ (others on request)	
<b>Dimensional tolerances</b>		
ISO 2768 – c		