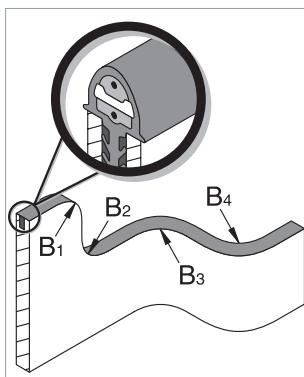


Dimensions in millimetres (mm)

Dimensional tolerances according to ISO 3302 E2/L2

Bend radii:



Miniature safety edge (without control unit)	EKS/W8k2 052 TPE or EKS/BK 052 TPE
Testing basis	In accordance with ISO 13856-2
Sensor colour	Black, window grey (RAL 7040) or light grey (RAL 7035)
Switching characteristics at $v_{test} = 50 \text{ mm/min (2 in/min)}$	
Switching operations	10,000
Actuation force	+23 °C -25 °C (+73.4 °F (-13 °F)
Test piece (rod) Ø 4 mm (5/32")	< 25 N (5.6 lbf) < 30 N (6.7 lbf)
Test piece (rod) Ø 200 mm (7 7/8")	< 40 N (9.0 lbf) < 50 N (11.2 lbf)
Actuation distance	< 2.0 mm (5/64")
Actuation angle	±40°
Test piece (cylinder) Ø 80 mm (3 5/32")	
Finger detection	Yes
Safety classifications	
ISO 13849-1: B _{10D}	2x 10 ⁶
Mechanical operating conditions	
Sensor length (min. max.)	10 cm 45 m (4" 147')
Cable length (min. max.)	10 cm 30 m (4" 98')
Fixing method	Clamp foot
Groove width for clamp foot	3.7 ±0.4 mm (9/64")
Bend radii, minimum	
B ₁ B ₂ B ₃ B ₄	120 150 20 20 mm (4 23/32" 5 29/32" 25/32" 25/32")
Maximum load (impulse)	600 N (134 lbf)
Tensile load, cable (max.)	60 N (13 lbf)
IEC 60529: degree of protection	IP67
Operating temperature	-25 to +80 °C (-13 to +176 °F)
Short-term (15 min)	-40 to +100 °C (-40 to +212 °F)
Storage temperature	-40 to +80 °C (-40 to +176 °F)
Weight	54 g/m (0.5806 oz/ft)
Electrical operating conditions	
Terminal resistance (±1%)	8k2
Nominal output (max.)	250 mW
Resistance: sensor activated	< 400 ohms
Number of /BK-type sensors	Max. 5 in series
Switching voltage (max.)	DC 24 V
Switching current (min. max.)	1 10 mA
Connection cable	Ø 3.7 mm TPE 2x 0.22 mm ² (Ø 9/64" TPE 2x AWG24)

Physical resistance

	TPE
IEC 60529: degree of protection	IP67
UV resistance	Yes
DIN 75200: burning rate	40 mm/min (1.6 in/min)

Chemical resistance

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

All tests were carried out at room temperature (+23 °C (+73.4 °F)).