

Magnetic switches

Sensor Technology for Industry and Mining



Specifications

Response time (closing):	max. 3.5 ms
Fall time (opening):	max. 0.2 ms
Bounce duration:	max. 0.5 ms
Contacts fitted:	see Table 1 (p. 40)
Contact load:	see Table 2 (p. 42)
Repeating accuracy:	± 0.2 mm
service life:	10 ⁹ switching cycles
Temperature range:	-20 °C to +85 °C
Special design wKC	-60 °C to 150 °C with silicone cable
Switching frequency:	max. 100 Hz
Shock load in 11 ms duration:	
Pulse switch	max. 50 g
Latching switch	max. 15 g
Mounting position:	any
Protection class according to DIN 40050:	IP 67
Housing:	brass
Weight:	approx. 0.390 kg with 2 m cable approx. 90 g/m

Magnetic switch of design type 177

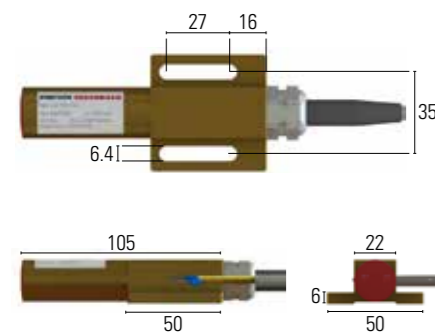


Characteristics



MONO STABLE | 1 BI STABLE | 2

Dimensions (in mm)



Design

wK177L...
Former designation w-HKPT1 (pulse switch)
Former designation w-HKPT2a (latching switch)

w = weather resistant
IP67

Special features

- Fastening by means of elongated holes
- 1 isolated contact (normally closed contact/normally open contact) or 1 changeover contact (latching switch)
- Up to 3 isolated contacts (normally closed contact/normally open contact) or 2 changeover contacts (pulse switch)
- With Ölflex cable set (oil-resistant), silicone (temperature-resistant up to 180 °C), Purwil (UV-resistant) or sensor plug connector M12

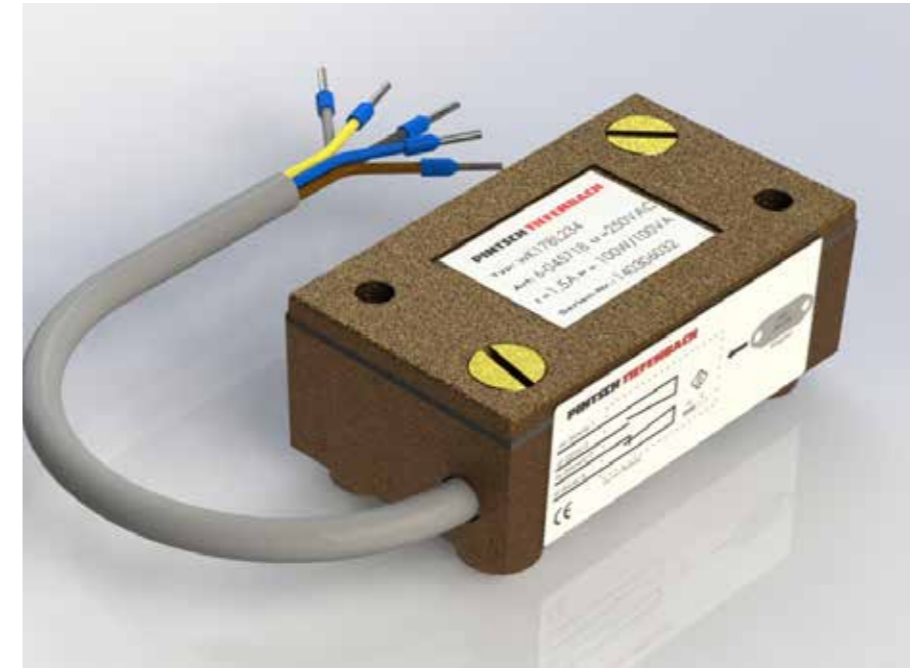
wKC177L...
wKC= heat-resistant up to +150 °C with silicone connecting line

iKX177L...
iKX = ATEX approval
For intrinsically safe systems: BVS 04 ATEX E155

CE 0158 Ⓢ I M2 EEx ia I
CE 0158 Ⓢ II 2G EEx ia IIC T6

Please observe separate ATEX data sheet

Magnetic switch of design type 178



Design

wK178L...
Former designation wHKPT2

w = weather resistant
IP65

Special features

- Up to 3 isolated contacts (normally closed contact/normally open contact) or 2 changeover contacts (pulse and latching switch)
- With Ölflex cable set (oil-resistant), silicone (temperature-resistant up to 180 °C) or Purwil (UV-resistant)

Specifications

Response time (closing):	max. 3.5 ms
Fall time (opening):	max. 0.2 ms
Bounce duration:	max. 0.5 ms
Contacts fitted:	see Table 1 (p. 40)
Contact load:	see Table 2 (p. 42)
Repeating accuracy:	± 0.2 mm
service life:	10 ⁹ switching cycles
(depending on the contact load)	
Temperature range:	
Ölflex cable	-20 °C to +85 °C
Purwil cable	-40 °C to +85 °C
Switching frequency:	max. 100 Hz
Shock load in 11 ms duration:	
Pulse switch	max. 50 g
Latching switch	max. 15 g
Mounting position:	any
Protection class according to DIN 40050:	IP 65 IP 67, fully encapsulated
Housing:	Gunmetal
Weight:	0.750 kg with 2 m cable approx. 90 g/m

Characteristics



MONO STABLE | 1 BI STABLE | 2

Dimensions (in mm)

