

KD/KL 06

Capacitive sensor



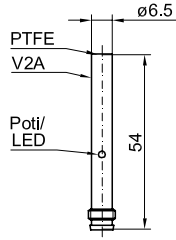
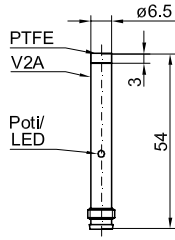
PRODUCT HIGHLIGHTS

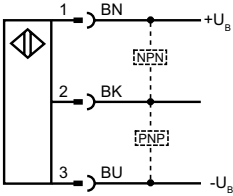
- Robust stainless steel housings
- Small housings
- Optional N.O. or N.C. variants
- Flush or non-flush design options

Sensor data		Functions	
Switching distance (flush)	0.1 ... 1.5 mm	Indicator LED, yellow	Switching output indication
Switching distance (non-flush)	0.1 ... 3 mm	Sensitivity adjustment	Via potentiometer
Hysteresis	15 % ¹	Default settings	Max. switching distance
Repeatability	2 % ¹		
Temperature drift	15 % / °C ¹ [-5 ... +55 °C]		
Electrical data		Mechanical data	
Operating voltage, +U _B	11 ... 30V DC	Dimensions	Ø 6.5 x 54 mm
No-load current, I ₀	≤ 10 mA	Enclosure rating	IP 65
Output current, I _e	≤ 50 mA	Material, housing	Stainless steel V2A
Protective circuits	Reverse polarity protection. U _B / short-circuit protection (Q) / overload protection	Material, front surface	PTFE
Power On Delay	< 300 ms	Type of connection	See Selection Table
Switching output, Q	PNP / NPN (see Selection Table)	Ambient temperature: operation	-10 ... +70 °C
Output function	N.O. / N.C. (see Selection Table)	Vibration and impact resistance	EN 60947-5-2
Switching frequency f (ti/tp 1:1)	100 Hz		

¹ Relating to switching distance

Switching distance	Installation	Switching output	Type of connection	Part number	Article number
0.1 ... 1.5 mm	Flush	PNP (N.O.)	Plug, M8x1, 3-pin	KD 06 B-PSM3	681-50878
0.1 ... 1.5 mm	Flush	PNP (N.C.)	Plug, M8x1, 3-pin	KD 06 B-POM3	681-50879
0.1 ... 1.5 mm	Flush	NPN (N.O.)	Plug, M8x1, 3-pin	KD 06 B-NSM3	681-50880
0.1 ... 1.5 mm	Flush	NPN (N.C.)	Plug, M8x1, 3-pin	KD 06 B-NOM3	681-50881
0.1 ... 3 mm	Non-flush	PNP (N.O.)	Plug, M8x1, 3-pin	KL 06 NB-PSM3	681-50886
0.1 ... 3 mm	Non-flush	PNP (N.C.)	Plug, M8x1, 3-pin	KL 06 NB-POM3	681-50887
0.1 ... 3 mm	Non-flush	NPN (N.O.)	Plug, M8x1, 3-pin	KL 06 NB-NSM3	681-50888
0.1 ... 3 mm	Non-flush	NPN (N.C.)	Plug, M8x1, 3-pin	KL 06 NB-NOM3	681-50889

Plug connection (flush)	Plug connection (non-flush)
 153-00516	 153-00517

Connection, 3-pin
 154-00459

Accessories	
Connection cables	From Page A-38
Brackets	From Page A-4