

# Technical Data

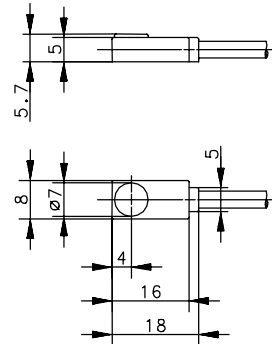
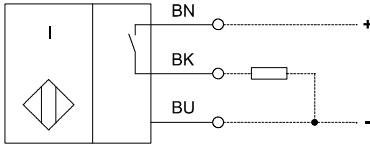
## Inductive Proximity Switch

### Series E16

Description **KIB-E16PS/1,5-K2PU**

Article number **6502985002**

#### Wiring Diagram



#### Identifying characteristics in accordance with EN 60947-5-2

##### Electrical data

Rated operating distance	$S_n$	1,5mm
Standard target		8 x 8mm, t=1mm; material: FE360
Effective operating distance	$S_r$	1,4 ... 1,7mm
Assured operating distance	$S_a$	0 ... 1,2mm
Switching element function		DC, N.O.
Repeat accuracy	R	≤ 5%
Differential travel (hysteresis)	H	≤ 0,2 x $S_r$
Rated operational voltage	$U_e$	12 – 24V DC
Operational voltage range	$U_B$	10 – 36V DC
Rated insulation voltage	$U_i$	75V DC
Rated impulse withstand voltage	$U_{imp}$	500V
Voltage drop	$U_d$	≤ 1,5V (add. 0,06V per m cable and 200mA Load @ 20°C)
Utilization category		DC 13
Rated operational current	$I_e$	≤ 200mA
Minimum operational current	$I_m$	≤ 1mA
Off-state current	$I_r$	< 0,3mA
No-load supply current	$I_o$	≤ 11mA
Rated conditional short-circuit current		100A
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	1000Hz
Rated supply frequency		DC
Mounting		flush
False polarity protection		yes
Time delay before availability	$t_v$	≤ 10ms

##### Electromagnetic compatibility (EMC)

Electromagnetic field test	IEC 61000-4-3
Electrostatic discharge test	IEC 61000-4-2
Electrical fast transient immunity test (Burst)	IEC 61000-4-4
Impulse voltage withstand ability (Surge)	IEC 255-5
Radiated disturbance field strength	EN 55011

##### Mechanical Data

Enclosure	PA6, black
Ambient air temperature	-25°C ... +70°C
Type of protection	IP67
Pollution degree	3 (Pollution of the active zone can cause impairments of the operating distances.)
Termination type	Cable 3 x 0,14mm <sup>2</sup> x 2m, PUR - Outer jacket, black

##### EU Conformity



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