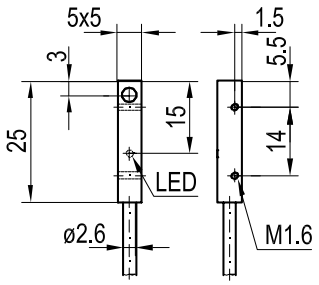
IS 455

Inductive sensor in cubic housing

Cable connection



Sensor data	
Switching distance	0.8 mm
Repeatability	0.01 mm[1]
Hysteresis	≤ 10 %[2]
Reduction factor, Al	0.60
Reduction factor, Cu	0.60
Reduction factor, V2A	0.85
Reduction factor, steel FE 360	1.00
Reduction factor, brass	0.70

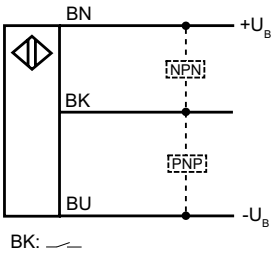
Functions	
Indicator LED, yellow	Switching output indicator

Electrical data	
Operating voltage, $+U_B$	10 … 30 V DC[3]
No-load current, I_0	≤ 10 mA
Output current, Ie	≤ 200 mA
Voltage drop, U_D	≤ 2 V at 200 mA
Protective circuits	Reverse-polarity protection, U_B / short-circuit protection (Q) / induction protection
Switching output, Q	PNP / NPN (see Selection Table)
Output function	N.O.
Switching frequency, f (ti/tp 1:1)	≤ 5000 Hz

Mechanical data	
Dimensions	5 x 5 x 25 mm
Mounting	Flush
Enclosure rating	IP 67[4]
Material, housing	Brass, chrome-plated
Material, front surface	Polyester
Type of connection	See Selection Table
Ambient temperature: operation	-25 … +70 °C
Vibration and impact resistance	IEC 60947-5-2 / 7.4

[1] U_B = 20 … 30 V DC, T_A = 23 °C ± 5 °C [2] Refers to switching distance [3] Max. 20 % ripple, within U_B [4] With connected IP 67 plug

Connection, 3-wire



Switching distance	Switching output	Type of connection	Part number	Article number
0.8 mm	PNP	Cable, 2m, 3-wire	IS 455-02	996-50585
0.8 mm	NPN	Cable, 2m, 3-wire	IS 455-01	996-50607