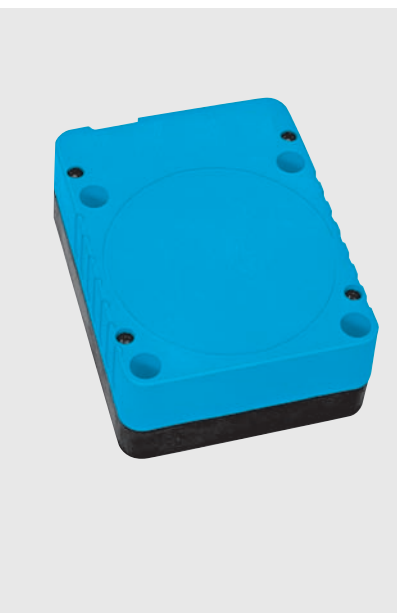
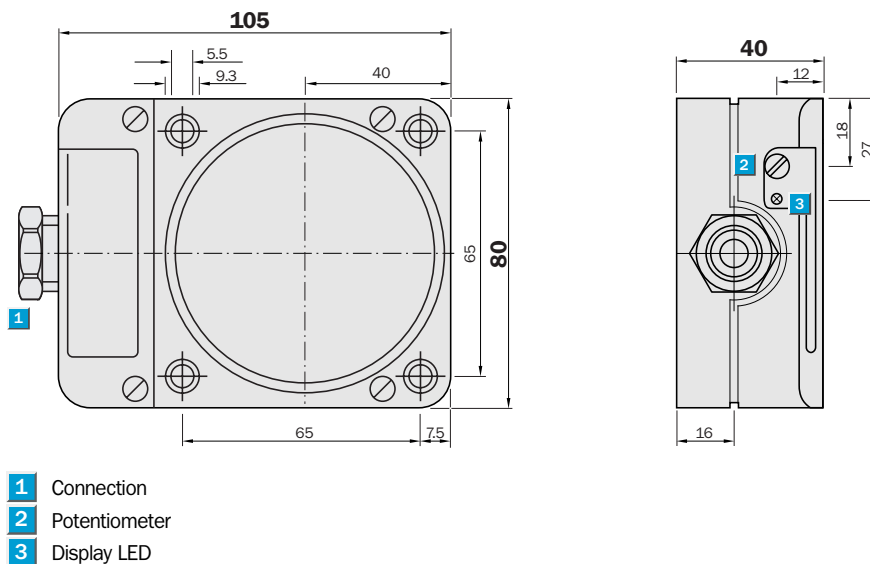


- Adjustable switching distance between 20 to 60 mm
- Programmable NO/NC function
- Short-circuit protection (pulsed)
- Terminal connection
- Enclosure rating IP 65

Dimensional drawing

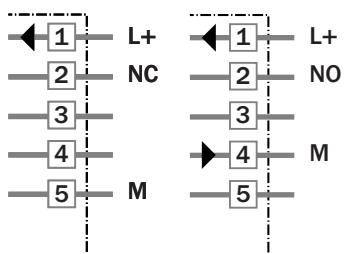



Connection type

IQ80-60NPP-KK0



Terminal, M20 x 1.5




Technical specifications		IQ80-	60NPP-KK0											
Sensing range S_n	60 mm													
Electrical configuration	DC 3-wire													
Supply voltage V_s	DC 10 ... 36 V													
Voltage drop U_d	$\leq 2.5 \text{ V}^{1)}$													
Power consumption	$\leq 15 \text{ mA}^{2)}$													
Continuous current I_a	$\leq 250 \text{ mA}$													
Time delay before availability t_v	$\leq 250 \text{ ms}$													
Hysteresis H, of s_r	1 ... 15 %													
Repeatability R	$\leq 10 \text{ %}$ (U_b and T_a constant) ³⁾													
Temperature drift, of s_r	$\pm 10 \text{ %}$													
EMC	According to EN 60947-5-2													
Switching output	PNP													
Output function	Programmable													
Connection type	Cable gland, Terminal, M20 x 1.5													
Enclosure rating	IP 65 ⁴⁾													
VDE protection class														
Max. switching frequency	4 Hz													
Dimensions	80 x 40 x 105 mm ⁵⁾													
Short-circuit protection	✓ ⁶⁾													
Reverse polarity protection	✓													
Power-up pulse suppression	✓													
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm													
Ambient temperature T_a	-25 °C ... +80 °C													
Housing material	Plastic													

¹⁾ at I_a max and U_b 24 V
²⁾ without load
³⁾ of s_r
⁴⁾ according to EN 60529
⁵⁾ Width x height x depth
⁶⁾ (pulsed)

Order information

Type	Order no.
IQ80-60NPP-KK0	7 900 227

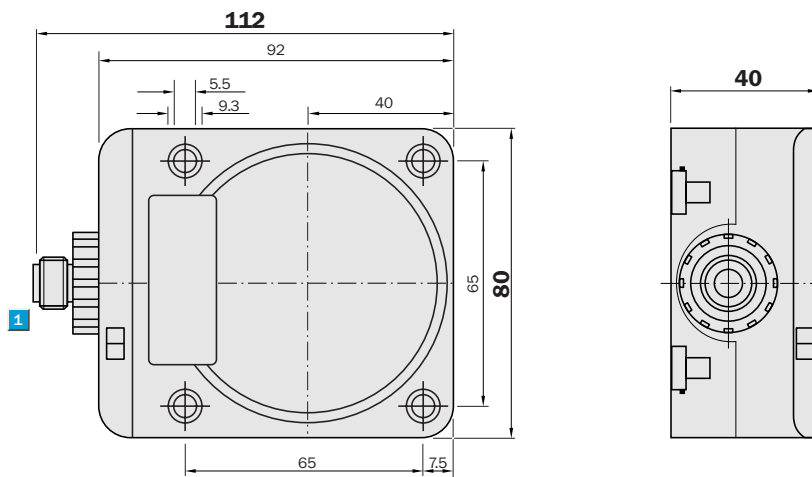


Sensing range
44.55 / 50 mm

Inductive sensor

- Can be installed non-flush, flush or over flush in metal
- Switching distance 50 mm (flush or over flush installation) switching distance max. 5.5 mm reduced (non-flush installation)
- Antivalent output functions
- Connector M12 (rotatable in 45°-steps)
- Enclosure rating IP 67

Dimensional drawing

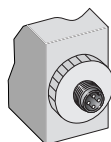


1 Connection

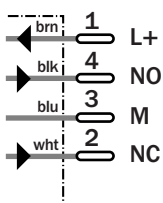


Connection type

IQ80-50BPP-KC0



M12, 4-pin



See chapter Accessories

Connector, M12, 4-pin

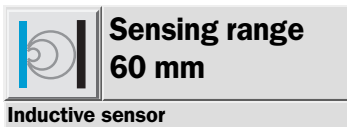
Technical specifications		IQ80-	50BPP-KC0											
Sensing range S_n	44,55 / 50 / 50 mm													
Electrical configuration	DC 4-wire													
Supply voltage V_s	DC 10 ... 36 V													
Voltage drop U_d	$\leq 2.5 \text{ V}^{1)}$													
Power consumption	$\leq 20 \text{ mA}^{2)}$													
Continuous current I_a	$\leq 250 \text{ mA}$													
Hysteresis H, of s_r	1 ... 15 %													
Repeatability R	$\leq 10 \text{ %}$ (U_b and T_a constant) ³⁾													
Temperature drift, of s_r	$\pm 10 \text{ %}$													
EMC	According to EN 60947-5-2													
Switching output	PNP													
Output function	Complementary													
Installation	Non-flush													
	Overflush													
	Flush													
Connection type	Connector, M12, 4-pin													
Enclosure rating	IP 67 ⁴⁾													
VDE protection class	□													
Max. switching frequency	70 Hz													
Dimensions	80 x 40 x 112 mm ⁵⁾													
Overload protected	✓													
Short-circuit protection	✓ ⁶⁾													
Reverse polarity protection	✓													
Power-up pulse suppression	✓													
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm													
Ambient temperature T_a	-25 °C ... +70 °C													
Housing material	PPE, zinc-die cast, nickel special coated													

¹⁾ at I_a max and U_b 24 V
²⁾ without load

³⁾ of s_r
⁴⁾ according to EN 60529

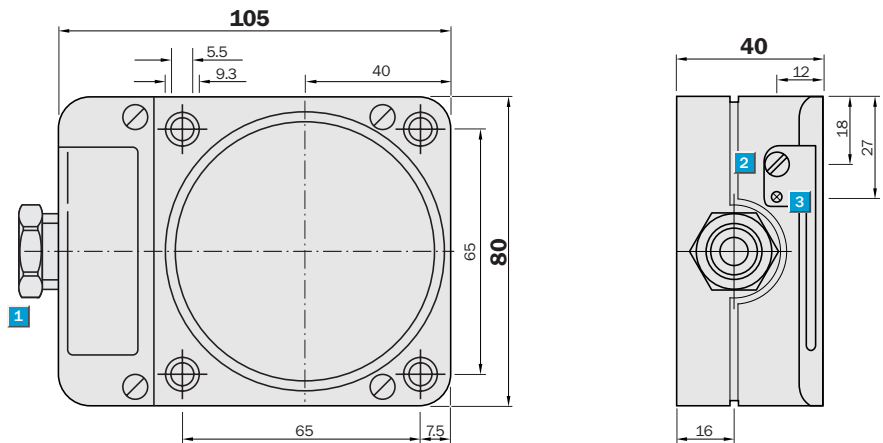
⁵⁾ Width x height x depth
⁶⁾ (pulsed)

Order information	
Type	Order no.
IQ80-50BPP-KC0	6 026 473

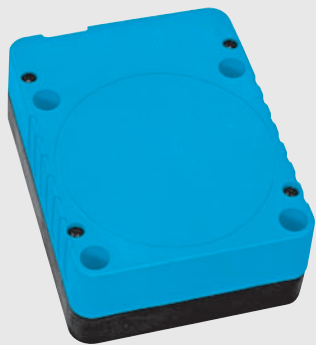


- Adjustable switching distance between 20 and 60 mm
- Broad supply voltage range in AC and DC
- Programmable switching output: NO or NC
- Enclosure rating IP 65
- Terminal connection

Dimensional drawing



- 1 Connection
- 2 Potentiometer
- 3 Display LED



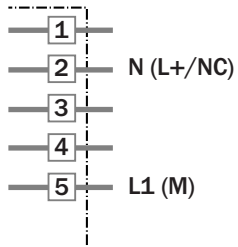
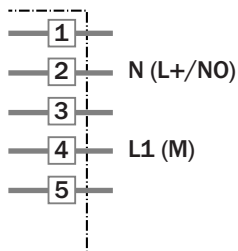
Connection type

IQ80-60NUP-KK0

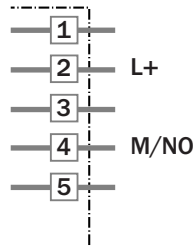
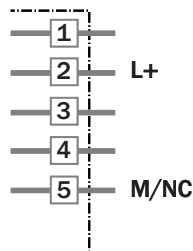


Terminal, M20 x 1.5

AC / DC (NPN)



DC (PNP)



Technical specifications		IQ80-	60NUP-KK0											
Sensing range S_n	60 mm													
Electrical configuration	AC/DC 2-wire													
Supply voltage V_s	AC/DC 20 ... 250 V													
Voltage drop U_d AC/DC	≤ 6.5 V / ≤ 6 V													
Continuous current I_a	≤ 350 mA AC (... + 50 °C)													
Continuous current I_a	≤ 250 mA AC (... + 80 °C)													
Continuous current I_a	≤ 100 mA DC													
Intermittent current I_k	2.2 A 20 ms/0.5 Hz													
Min. load current	> 5 mA													
Residual current	≤ 2.5 mA (250 V AC)													
Residual current	≤ 1.3 mA (110 V AC)													
Residual current	≤ 0.8 mA (24 V DC)													
Time delay before availability t_v	≤ 8 ms													
Hysteresis H, of s_r	1 ... 15 %													
Repeatability R	≤ 10 % (U_b and T_a constant) ¹⁾													
Temperature drift, of s_r	± 10 %													
EMC	According to EN 60947-5-2													
Switching output	PNP/NPN config.													
Output function	Programmable													
Installation	Non-flush													
Connection type	Cable gland, Terminal, M20 x 1.5													
Enclosure rating	IP 65 ²⁾													
VDE protection class	□													
Max. switching frequency	4 Hz													
Dimensions	80 x 40 x 105 mm ³⁾													
Power-up pulse suppression	✓													
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm													
Ambient temperature T_a	-25 °C ... +80 °C													
Housing material	Plastic													

¹⁾ of s_r ²⁾ according to EN 60529 ³⁾ Width x height x depth

Order information

Type	Order no.
IQ80-60NUP-KK0	7 902 138