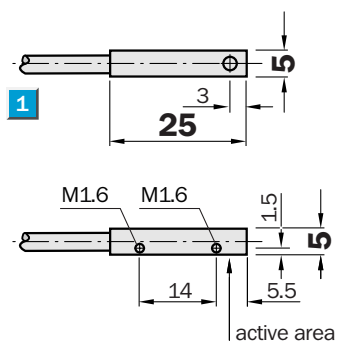


- Can be installed flush
- High switching frequency
- Short-circuit protection (pulsed)
- Robust brass housing, nickel-plated
- Enclosure rating IP 67

## Dimensional drawing



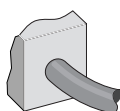
1 Connection



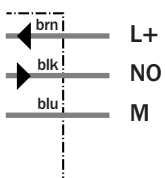
## Connection type

IQ05-0B8NS-ZU1

IQ05-0B8PS-ZU1



3 x 0.06 mm<sup>2</sup>



Technical specifications		IQ05-	OB8NS-ZU1	OB8PS-ZU1										
<b>Sensing range <math>S_n</math></b>	0.8 mm													
<b>Electrical configuration</b>	DC 3-wire													
<b>Supply voltage <math>V_s</math></b>	DC 10 ... 30 V													
Ripple $U_{pp}$	$\leq 20\%$ <sup>1)</sup>													
Voltage drop $U_d$	$\leq 2\text{ V}$ <sup>2)</sup>													
Power consumption	$\leq 10\text{ mA}$ <sup>3)</sup>													
<b>Continuous current <math>I_a</math></b>	$\leq 200\text{ mA}$													
Time delay before availability $t_v$	$\leq 10\text{ ms}$													
Hysteresis H, of $s_r$	10 %													
Repeatability R	$\leq 1.5\%$ ( $U_b$ and $T_a$ constant)													
Temperature drift, of $s_r$	$\pm 10\%$													
EMC	According to EN 60947-5-2													
<b>Switching output</b>	NPN													
	PNP													
<b>Output function</b>	Normally open <sup>4)</sup>													
<b>Installation</b>	Flush													
<b>Connection type</b>	Cable, PUR, 2 m													
<b>Enclosure rating</b>	IP 67 <sup>5)</sup>													
Max. switching frequency	5,000 Hz													
Dimensions	5 x 5 x 25 mm <sup>6)</sup>													
<b>Short-circuit protection</b>	✓ <sup>7)</sup>													
<b>Reverse polarity protection</b>	✓													
<b>Power-up pulse suppression</b>	✓													
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm													
Ambient temperature $T_a$	-25 °C ... +70 °C													
<b>Housing material</b>	Brass nickel-plated, plastic													

<sup>1)</sup> of  $U_b$   
<sup>2)</sup> at  $I_a = 200\text{ mA}$   
<sup>3)</sup> without load  
<sup>4)</sup> normally closed function available on request  
<sup>5)</sup> according to EN 60529  
<sup>6)</sup> Width x height x depth  
<sup>7)</sup> (pulsed)

## Order information

Type	Order no.
IQ05-OB8NS-ZU1	6 020 162
IQ05-OB8PS-ZU1	6 020 161