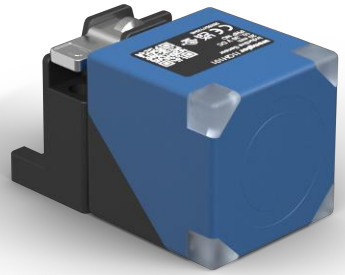
wenglor
the innovative family

Technical Data

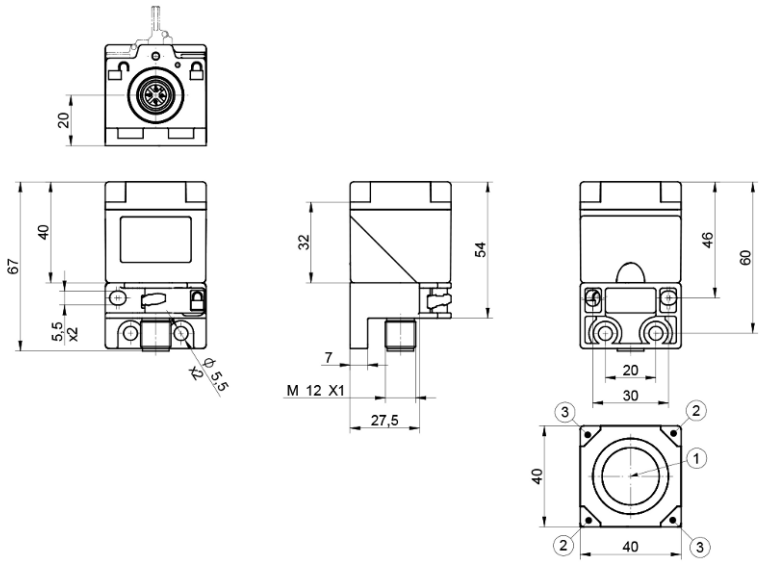
I1QH105

Inductive Sensor

with IO-Link



Symbol	Key
1	Active surface
2	Power LED
3	Switching status indicator O1



EN

Dimensions in mm
Subject to change without notice
Version 0
www.wenglor.com

Technical data

Inductive Data	
Switching Distance	20 mm
Programmable switching distance	14/16/20 mm
Correction Factors Stainless Steel V2A/CuZn/Al	0,84/0,32/0,30
Mounting	Flush
Installation A/B/C in mm	0/0/60
Installation D in mm	6...35 or ≥ 40
Installation E in mm	30
Switching Hysteresis	< 10 %

Electrical Data	
Supply Voltage	10...30 V DC
Supply Voltage with IO-Link	18...30 V DC
Current Consumption (Ub = 24 V)	< 13 mA
Switching Frequency	720 Hz
Programmable switching frequency	yes
Temperature Drift	< 10 %
Temperature Range	-40...80 °C
Switching Output Voltage Drop	< 1 V
Switching Output/Switching Current	150 mA
Residual Current Switching Output	< 100 µA
Short Circuit Protection	yes
Overload Protection	yes
Reverse Polarity Protection	yes
Interface	IO-Link V1.1
Protection Class	III

Mechanical Data	
Housing Material	Plastic, PA
Sensing face	Plastic, PA
Degree of Protection	IP67 IP68
Connection Type	Plug variant
Connection	M12 × 1; 4-pin

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706.54 a

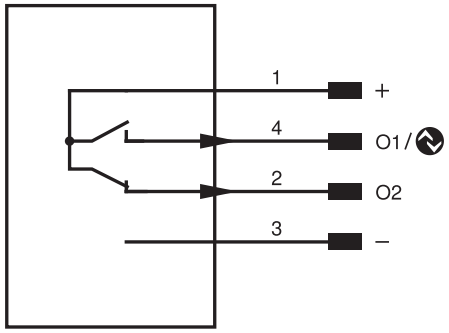
General Data	
Packaging unit	1 Piece

Adjustable parameters	
Output	Error Output Push-pull NPN PNP
Circuit	NC NC/NO NO

All other parameters can be found in the product documentation.

BMECat data	
eCl@ss 5.1.4	27-27-01-01 Inductive proximity switch
eCl@ss 6.x	27-27-01-01 Inductive proximity switch
eCl@ss 7.0	27-27-01-01 Inductive proximity switch
eCl@ss 7.1	27-27-01-01 Inductive proximity switch
eCl@ss 8.x	27-27-01-01 Inductive proximity switch
eCl@ss 10.0.1	27-27-01-01 Inductive proximity switch

Technical illustrations



Pin	Pin function	Polarity	Circuit
1	Supply Voltage +		
2	Error output	PNP	NC
3	Supply voltage 0 V		
4	Switching Output 1 IO-Link	PNP	NO

Illustration 1: Mounting

