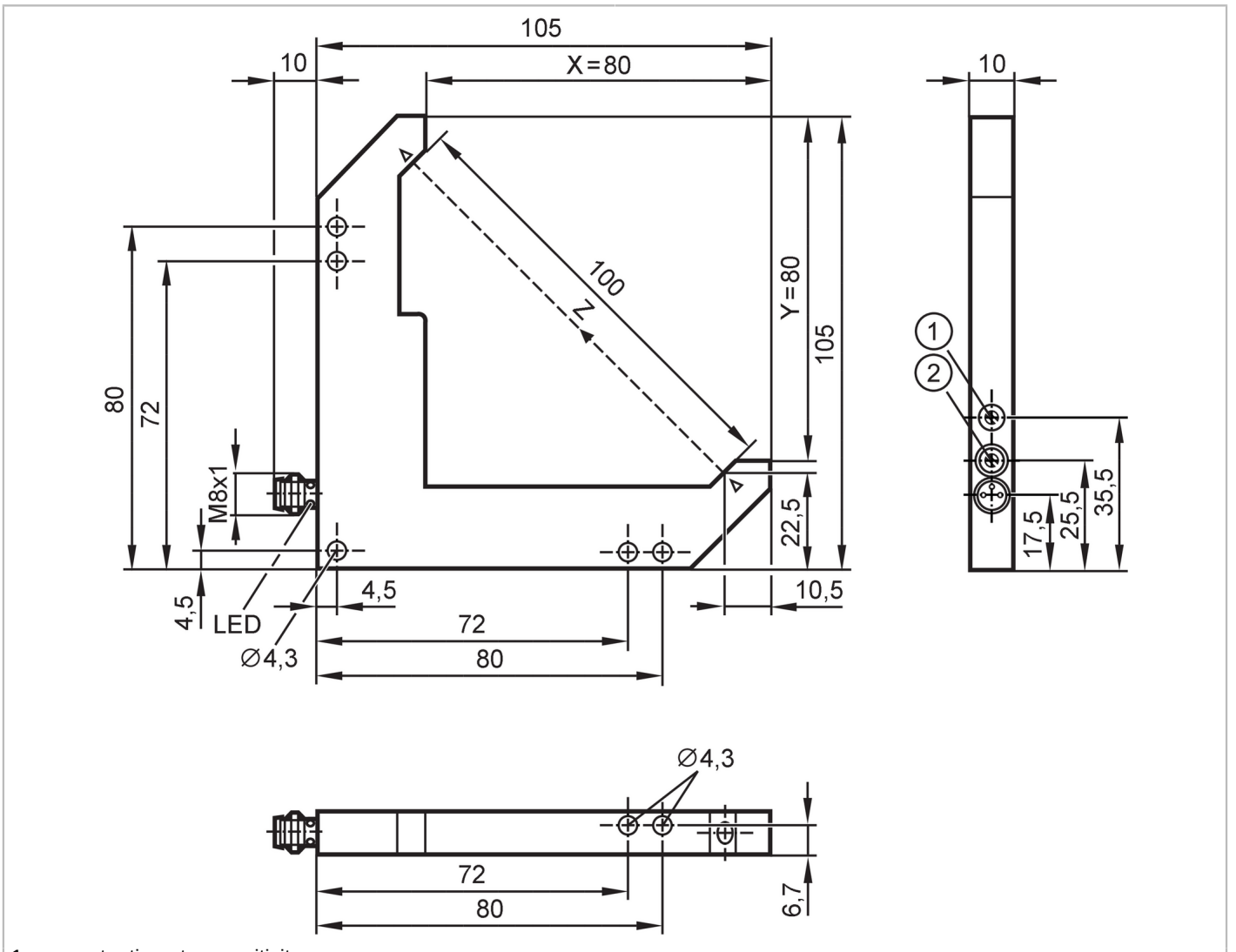
OPL201

Photoelectric angle sensor

OPL-FCKG/IO-LINK/AS



1 potentiometer sensitivity
2 output function switch

Product characteristics		
Type of light		red light
Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (selectable)
Max. voltage drop switching output DC	[V]	1

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Permanent current rating of switching output DC	[mA]	100	
Switching frequency DC	[Hz]	5000	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Diameter of the smallest detectable object	[mm]	0.3	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9	
Profiles		Smart Sensor - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Multiple switching signal
		Function	Process data variable
		Function	Device diagnosis
		Function	Teach channel
SIO mode		yes	
Required master port type		A	
Min. process cycle time	[ms]	3.2	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	978
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	709	
Mechanical data			
Weight	[g]	187	
Dimensions	[mm]	105 x 10 x 105	
Side length X	[mm]	80	
Side length Y	[mm]	80	
Sensor width Z	[mm]	100	
Materials		housing: diecast zinc black anodised; lens: glass	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
Pack quantity		1 pcs.	

OPL201

Photoelectric angle sensor

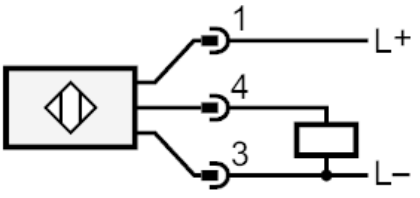
OPL-FCKG/IO-LINK/AS

Electrical connection

Connector: 1 x M8; coding: A; Contacts: 3



Connection



4	OUT / IO-Link

Other data

operating mode adjustable via IO-Link

	standard	High Resolution	Power	Speed
Resolution	0.3 mm	0.2 mm	1.0 mm	0.3 mm
Repeatability	0.02 mm	0.02 mm	0.02 mm	0.02 mm
Switching frequency	5000 Hz	1500 Hz	250 Hz	8000 Hz

Repeatability	3 σ