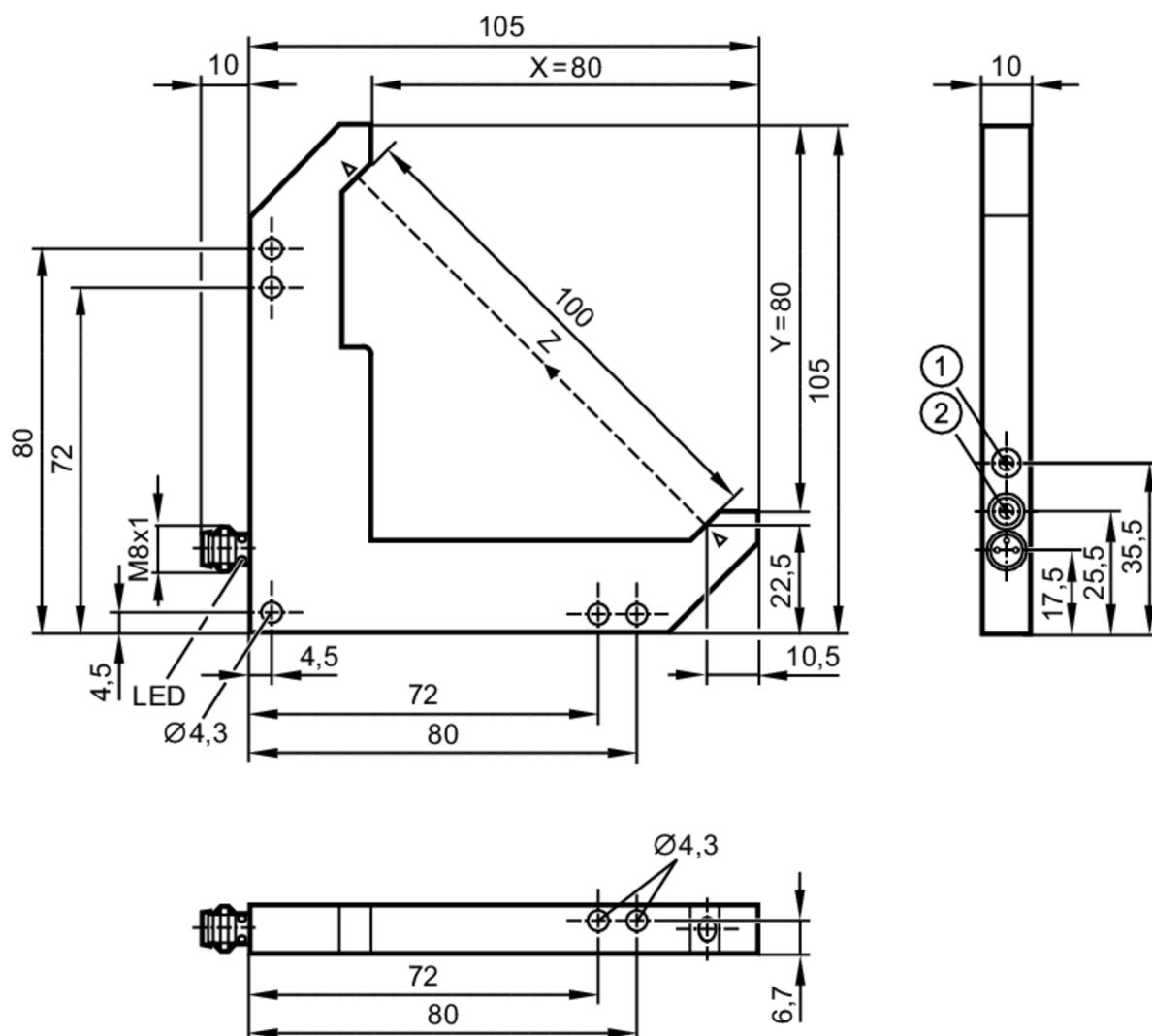


Photoelectric angle sensor

OPL-FNKG/IO-LINK/AS



- 1 potentiometer sensitivity
2 output function switch



Product characteristics

Type of light	red light
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Electrical data

Operating voltage	[V]	10...30 DC; (cULus - Class 2 source required)
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660

Outputs

Electrical design	NPN
Output function	light-on/dark-on mode; (selectable)



Photoelectric angle sensor

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Max. voltage drop switching output DC	[V]	1
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	5000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Diameter of the smallest detectable object	[mm]	0.3
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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 class	A	
Min. process cycle time	[ms]	3.2
Supported DeviceIDs	Type of operation	DeviceID
	default	1103

Operating conditions

Ambient temperature	[°C]	-25...60
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
MTTF	[years]	709

Mechanical data

Weight	[g]	182
Dimensions	[mm]	105 x 10 x 105
Side length X	[mm]	80
Side length Y	[mm]	80
Sensor width Z	[mm]	100
Material	housing: diecast zinc black anodized; lens: glass	

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Remarks

Remarks	cULus - Class 2 source required	
Pack quantity	1 pcs.	

OPL203



Photoelectric angle sensor

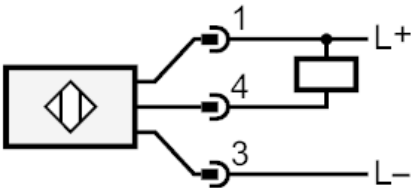
OPL-FNKG/IO-LINK/AS

Electrical connection

Connector: 1 x M8; coding: A



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			