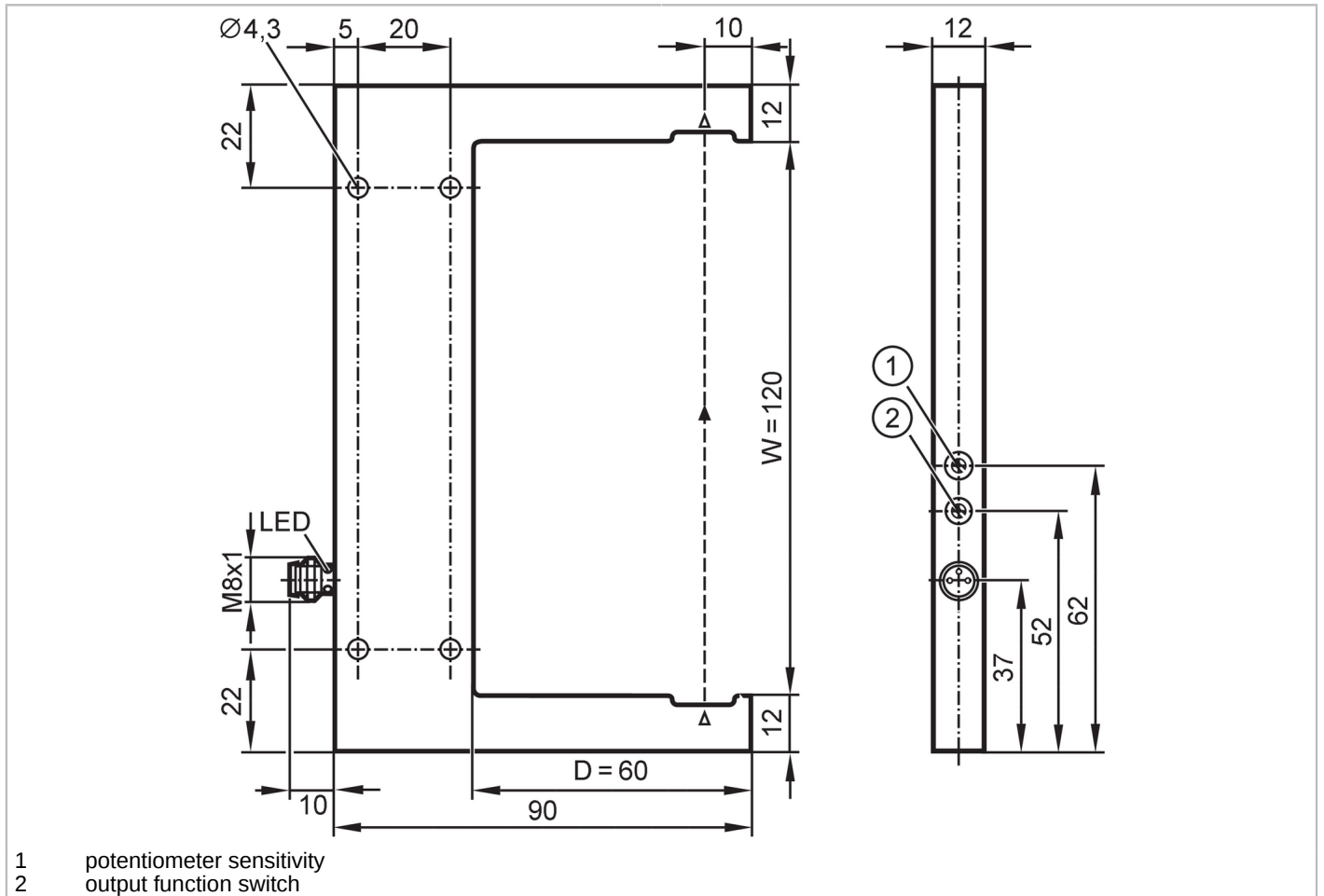


OPU205



Photoelectric fork sensor

OPU-FCKG/IO-LINK/AS



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		PNP
Output function		light-on/dark-on mode; (selectable)
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

OPU205



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Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range	
Diameter of the smallest detectable object [mm]	0.5

Interfaces													
Communication interface	IO-Link												
Transmission type	COM2 (38,4 kBaud)												
IO-Link revision	1.1												
SDCI standard	IEC 61131-9												
Profiles	<table border="1"> <tr> <td>Smart Sensor - SSP 0</td> <td>Generic Profiled Sensor</td> </tr> <tr> <td>Function</td> <td>Device identification</td> </tr> <tr> <td>Function</td> <td>Multiple switching signal</td> </tr> <tr> <td>Function</td> <td>Process data variable</td> </tr> <tr> <td>Function</td> <td>Device diagnosis</td> </tr> <tr> <td>Function</td> <td>Teach channel</td> </tr> </table>	Smart Sensor - SSP 0	Generic Profiled Sensor	Function	Device identification	Function	Multiple switching signal	Function	Process data variable	Function	Device diagnosis	Function	Teach channel
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	<table border="1"> <thead> <tr> <th>Type of operation</th> <th>DeviceID</th> </tr> </thead> <tbody> <tr> <td>default</td> <td>1104</td> </tr> </tbody> </table>	Type of operation	DeviceID	default	1104								
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default	1104												

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

Tests / approvals	
EMC	EN 60947-5-2
MTTF [years]	709

Mechanical data	
Weight [g]	296.5
Dimensions [mm]	144 x 12 x 90
Fork depth D [mm]	60
Fork width W [mm]	120
Material	housing: diecast zinc black anodized; lens: glass

Displays / operating elements	
Display	Switching status 1 x LED, yellow

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

Electrical connection

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



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Connection



4 OUT / IO-Link

Other data

operating mode adjustable via IO-Link

	standard	High Resolution	Power	Speed
Resolution	0.05 mm	0.03 mm	1.5 mm	0.5 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			