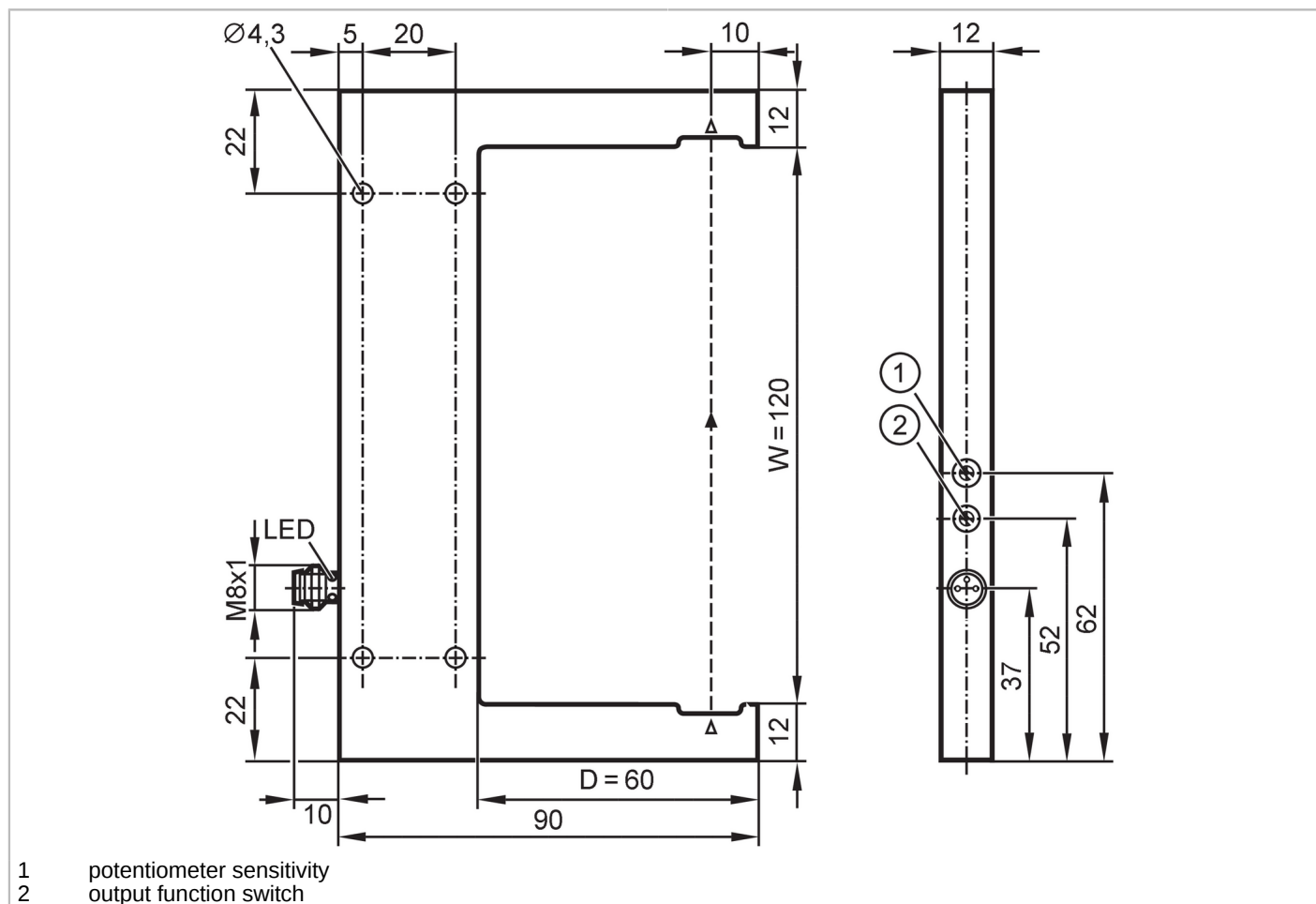




Photoelectric fork sensor

OPU-FNKG/IO-LINK/AS



Product characteristics

Type of light	red light
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Electrical data

Operating voltage [V]	10...35 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)
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



Photoelectric fork sensor

OPU-FNKG/IO-LINK/AS

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	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	1105
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	709
Mechanical data		
Weight	[g]	297
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		
		

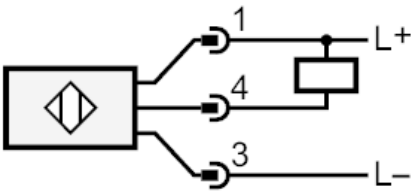
OPU211



Photoelectric fork sensor

OPU-FNKG/IO-LINK/AS

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			