

Easy, quick and precise from all angles.



Robust optical fork and angle sensors with a high switching frequency.

- Metal housing reduces distortion.
- Quick set-up: no need to alingn transmitter and receiver.
- **Easy sensitivity setting via potentiometer.**
- Light-on/dark-on mode via rotary switch.
- Across the whole fork width: fine and precise light beam!









Optical sensors in new designs

The new ifm units with robust metal housing resist distortion compared to conventional plastic forks. Compared to through-beam sensors, their advantage is that the time-consuming alignment of transmitter and receiver is not necessary.

These optical sensors are used in particular for part monitoring in feeder and handling systems. Further application examples are belt edge or double feed monitoring with the exact sensitivity setting via potentiometer being very helpful. The fine light beam with its constant small diameter is also ideal for monitoring shaft imbalance.





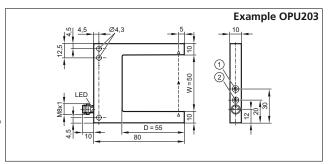


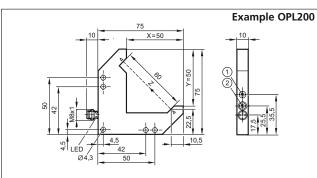
Photoelectric sensors



Fork width (w) [mm]	Fork depth (d) [mm]	Smallest detectable object Ø [mm]	Switching frequency [Hz]	Output L = light-on mode D = dark-on mode	Order no.			
Optical fork sensor type OPU · M8 connector · 3-pole · infrared · PNP/NPN								
10	17	0.3	10000	L / D, selectable	OPU200			
Optical fork sensor type OPU · M8 connector · 3-pole · red light · PNP								
20	25	0.4	4000	L / D, selectable	OPU201			
30	35	0.5	4000	L / D, selectable	OPU202			
50	55	0.5	4000	L / D, selectable	OPU203			
80	55	0.5	4000	L / D, selectable	OPU204			
120	60	0.8	2000	L / D, selectable	OPU205			
Optical fork sensor	type OPU · M8 connect	or · 3-pole · red light · N	IPN					
20	25	0.4	4000	L / D, selectable	OPU207			
30	35	0.5	4000	L / D, selectable	OPU208			
50	55	0.5	4000	L / D, selectable	OPU209			
80	55	0.5	4000	L / D, selectable	OPU210			
120	60	0.8	2000	L / D, selectable	OPU211			
Side lengths (x, y) [mm]	Sensor width (z) [mm]	Smallest detectable object Ø [mm]	Switching frequency [Hz]	Output L = light-on mode D = dark-on mode	Order no.			
Optical angle sensor type OPL · M8 connector · 3-pole · PNP								
50	60	0.5	4000	L / D, selectable	OPL200			
80	100	0.7	4000	L / D, selectable	OPL201			
Optical angle sensor type OPL · M8 connector · 3-pole · NPN								
50	60	0.5	4000	L / D, selectable	OPL202			
80	100	0.7	4000	L / D, selectable	OPL203			

Dimensions





- 1) Potentiometer sensitivity 2) Output function switch

Common technical data

Types OPU / OPL					
Operating voltage	[V DC]	1035			
Short-circuit protection, puls	•				
Reverse polarity / overload p	• / •				
Operating temperature	[°C]	-2560			
Current rating	[mA]	200			
Protection		IP 67, III			
Housing materials		Diecast zinc			

Connectors and splitter boxes

Туре	Description	Order no.
	Socket, M8, 3-pole, 2 m black, PUR cable	E11486
	Socket, M8, 3-pole, 5 m black, PUR cable	E11487
	Socket, M8, 3-pole, 2 m black, PUR cable	E11489
0	Socket, M8, 3-pole, 5 m black, PUR cable	E11490