

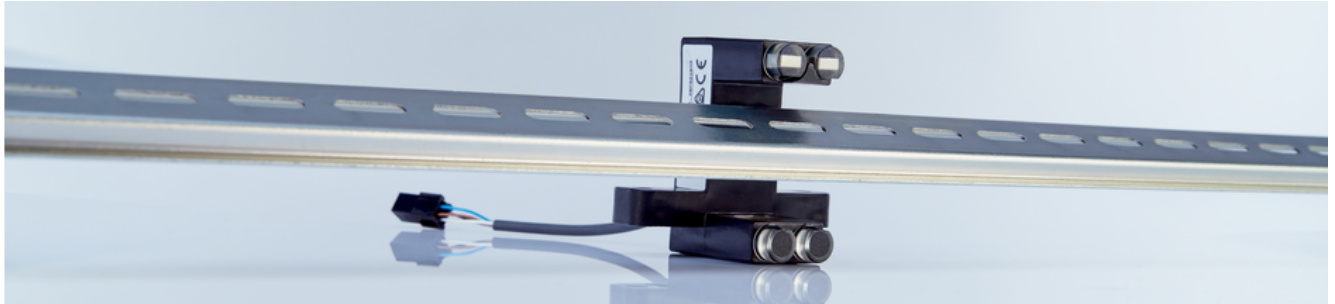


WFM

Plug-and-play fork sensors – connect and get started.

SICK
Sensor Intelligence.

WFM36



The double fork sensor from SICK – all-in-one solution for shuttle positioning

The WFM36 double fork is a customized solution used for positioning shuttles in racks in intralogistics. In response to the high variety of systems on the market, SICK offers adaptation of the housing dimensions to meet your requirements.



Technical data overview

Functional principle	Optical detection principle
Fork width	30 mm ... 180 mm (depends on variant)
Fork depth	28 mm ... 124 mm (depends on variant)
MDO	0.8 mm 3.5 mm 1 mm
Light source	LED, visible red light
Switching frequency	4 kHz
Response time	≤ 125 µs ¹⁾
Connection type	Cable, 3-wire 3 m Cable, 3-wire 2 m Connector M8, 3-pin Cable with MOLEX-connector, 4-pin 10 cm
IO-Link functions	—
Advanced functions	—

¹⁾ Signal transit time with resistive load.

Product description

The WFM fork sensors are extremely quick and easy to mount and commission thanks to plug and play. Their yellow receive indicator can be seen all the way round, providing optimum feedback on the switching behavior of the WFM. Since the sender and receiver are integrated within the same housing, there is no need for any complex alignment work, allowing detection tasks to be prepared and completed quickly and easily. WFM have a rugged aluminum housing and are available in five different designs with fork widths ranging from 30 mm to 180 mm and fork depths of between 40 mm and 120 mm. SICK's fork sensors are suited to numerous applications, such as detecting parts in production processes, checking whether various objects are present, or intralogistic processes.

At a glance

- Clearly visible red emitted light
- No setup required: The sensor is ready for operation immediately
- Receive indicator, visible all-round
- 5 fork sizes with a maximum depth of 120 mm and a maximum width of 180 mm
- Stable aluminum housing with IP 67 enclosure rating

Your benefits

- Fixed parameters guarantee a high level of operational safety with extremely simple commissioning
- A visible red light enables easy alignment of the WFM
- The all-round visible receive indicator enables constant process control
- A wide range of different fork sizes increases installation flexibility
- Stable aluminum housing for use in harsh industrial environments

Fields of application

- Detecting objects in production processes
- Monitoring the presence of different objects

Ordering information

Other models and accessories → www.sick.com/WFM

- **Adjustment:** none
- **Light source:** LED

Fork width	Fork depth	Switching output	Switching mode	Connection type Detail	Type	Part no.
30 mm	42 mm	NPN	Dark switching	Cable, 3-wire	WFM30-40N121	6058973
				Connector M8, 3-pin	WFM30-40N321	6037821
			Light switching	Cable, 3-wire	WFM30-40N111S02	6051399
				Connector M8, 3-pin	WFM30-40N311	6037822
		PNP	Dark switching	Cable, 3-wire	WFM30-40P121	6037823
				Connector M8, 3-pin	WFM30-40P321	6037819
			Light switching	Cable, 3-wire	WFM30-40P111	6052441
				Connector M8, 3-pin	WFM30-40P311	6037820
36 mm	28 mm	PNP	Dark switching	Cable with MOLEX-connector, 4-pin	WFM36-28P521S03	6070062
50 mm	60 mm	NPN	Dark switching	Connector M8, 3-pin	WFM50-60N321	6037826
			Light switching	Connector M8, 3-pin	WFM50-60N311	6037827
		PNP	Dark switching	Connector M8, 3-pin	WFM50-60P321	6037824
			Light switching	Connector M8, 3-pin	WFM50-60P311	6037825
80 mm	60 mm	NPN	Dark switching	Connector M8, 3-pin	WFM80-60N321	6037830
			Light switching	Connector M8, 3-pin	WFM80-60N311	6037831
		PNP	Dark switching	Connector M8, 3-pin	WFM80-60P321	6037828
			Light switching	Connector M8, 3-pin	WFM80-60P311	6037829
120 mm	124 mm	NPN	Dark switching	Connector M8, 3-pin	WFM120-120N321	6037834
			Light switching	Connector M8, 3-pin	WFM120-120N311	6037835
		PNP	Dark switching	Connector M8, 3-pin	WFM120-120P321	6037832
			Light switching	Connector M8, 3-pin	WFM120-120P311	6037833

Fork width	Fork depth	Switching output	Switching mode	Connection type Detail	Type	Part no.
180 mm	124 mm	NPN	Dark switching	Connector M8, 3-pin	WFM180-120N321	6037838
			Light switching	Connector M8, 3-pin	WFM180-120N311	6037839
		PNP	Dark switching	Connector M8, 3-pin	WFM180-120P321	6037836
			Light switching	Connector M8, 3-pin	WFM180-120P311	6037837

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com