WFM

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

FORK SENSORS

SICK
Sensor Intelligence.

WFM
FORK SENSORS

Technical data overview

Functional principle	Optical detection principle
Fork width	30 mm ... 180 mm (depending on type)
Fork depth	42 mm ... 124 mm (depending on type)
MDO	0.8 mm / 1 mm (depending on type)
Light source	LED, visible red light
Switching frequency	4 kHz [1]
Response time	125 µs [2]
Connection type	Cable, 3-wire 2 m Connector M8, 3-pin
IO-Link functions	––
Advanced functions	–

[1] With light/dark ratio 1:1.
[2] 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, visible red light

Fork width	Fork depth	Switching output	Connection type Detail	Type	Part no.
30 mm	42 mm	NPN	Connector M8, 3-pin	WFM30-40N311	6037822
				WFM30-40N321	6037821
		PNP	Cable, 3-wire	WFM30-40P111	6052441
				WFM30-40P121	6037823
			Connector M8, 3-pin	WFM30-40P311	6037820
				WFM30-40P321	6037819
50 mm	60 mm	NPN	Connector M8, 3-pin	WFM50-60N311	6037827
				WFM50-60N321	6037826
		PNP	Connector M8, 3-pin	WFM50-60P311	6037825
				WFM50-60P321	6037824
80 mm	60 mm	NPN	Connector M8, 3-pin	WFM80-60N311	6037831
				WFM80-60N321	6037830
		PNP	Connector M8, 3-pin	WFM80-60P311	6037829
				WFM80-60P321	6037828
120 mm	124 mm	NPN	Connector M8, 3-pin	WFM120-120N311	6037835
				WFM120-120N321	6037834
		PNP	Connector M8, 3-pin	WFM120-120P311	6037833
				WFM120-120P321	6037832
180 mm	124 mm	NPN	Connector M8, 3-pin	WFM180-120N311	6037839
				WFM180-120N321	6037838
		PNP	Connector M8, 3-pin	WFM180-120P311	6037837
				WFM180-120P321	6037836

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**

SICK AG | Waldkirch | Germany | www.sick.com

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