



UFW

Easy and reliable web edge detection

SICK
Sensor Intelligence.



Technical data overview

Functional principle	Ultrasonic detection principle
Fork width	30 mm / 60 mm (depending on type)
Fork depth	43 mm / 73 mm (depending on type)
Response time	5.1 ms / 6 ms (depending on type)
Connection type	Male connector M12, 5-pin



Product description

The UFW fork sensor from SICK makes non-contact web edge guiding possible. Thanks to ultrasonic technology, the UFW detects a multitude of materials with great precision and is therefore ideally suited for applications with transparent films or light-sensitive materials. The compact housing designs (30 mm and 60 mm fork width) allow space-saving installation. Calibration is simple to perform using a teach-in button. Three LEDs indicate at a glance the position of the web material within the fork. Furthermore, the IO-Link communication interface opens up numerous possibilities for fine adjustment, analyses and monitoring.

At a glance

- Fork available in the widths 30 mm and 60 mm
- High resolution of 0.01–0.02 mm and repeatability of 0.1 mm
- Easy adjustment via IO-Link
- Analog output can be switched between current (4–20 mA) and voltage (0–10 V)
- Visualization of the web material position within the fork using three LEDs
- Durable metal housing

Your benefits

- High process reliability thanks to ultrasonic technology, even for optically demanding materials
- Slim housing requires little installation space
- IO-Link for fine adjustment, analyses and monitoring
- Sensor is easy to integrate into processes thanks to adjustable current/voltage output
- Reliable function with sender and receiver integrated into the housing

Fields of application

- Web edge guiding in packaging machines for a form, fill and seal machine
- Plastic film and platter guidance
- Web edge guiding for wide-belt sanding machines

Ordering information

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

- **Communication interface:** IO-Link
- **Adjustment:** Teach-in button, cable
- **Enclosure rating:** IP65

Fork width	Fork depth	Switching output	Connection type Detail	Type	Part no.
30 mm	43 mm	Push-pull: PNP/NPN	Male connector M12, 5-pin	UFW3-43B717IZZ	6086478
60 mm	73 mm	Push-pull: PNP/NPN	Male connector M12, 5-pin	UFW6-73B717IZZ	6086480

- **Communication interface:** IO-Link
- **Adjustment:** Teach-in button, cable
- **Enclosure rating:** IP67

Fork width	Fork depth	Switching output	Connection type Detail	Type	Part no.
30 mm	43 mm	Push-pull: PNP/NPN	Male connector M12, 5-pin	UFW3-43B717ZZZ	6086479
60 mm	73 mm	Push-pull: PNP/NPN	Male connector M12, 5-pin	UFW6-73B717ZZZ	6086481

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