



WF2-40B110

WF

FORK SENSORS

SICK
Sensor Intelligence.

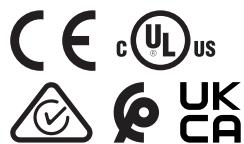


Ordering information

Type	part no.
WF2-40B110	6058971

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

Illustration may differ



Detailed technical data

Features

Functional principle	Optical detection principle
Dimensions (W x H x D)	12 mm x 37.1 mm x 80 mm
Fork width	2 mm
Fork depth	40 mm
Label detection	✓
Light source	LED, infrared, Infrared light
Output function	Light/darkswitching, adjustable via reverse polarity

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	< 10 %
Current consumption	40 mA ¹⁾
Switching frequency	10 kHz
Response time	≤ 30 µs ²⁾
Switching output	PNP/NPN
Switching output (voltage)	PNP: HIGH = U _V ≤ 2 V / LOW approx. 0 V NPN: HIGH = approx. U _V / LOW ≤ 2 V
Switching mode	Light/dark switching
Output current I_{max.}	100 mA
Connection type	Cable, 4-wire, 2 m
Protection class	III ³⁾

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

³⁾ Reference voltage DC 50 V.

⁴⁾ Depending on fork width.

Circuit protection	Output Q short-circuit protected Interference pulse suppression
Enclosure rating	IP65
Weight	Approx. 36 g ... 160 g ⁴⁾
Housing material	Aluminum

1) Without load.

2) Signal transit time with resistive load.

3) Reference voltage DC 50 V.

4) Depending on fork width.

Safety-related parameters

MTTF_D	97 years
DC_{avg}	0 %

Ambient data

Ambient operating temperature	-20 °C ... +60 °C ¹⁾
Ambient temperature, storage	-20 °C ... +80 °C
Ambient light immunity	≤ 10,000 lx
Shock load	According to EN 60068-2-27
UL File No.	NRKH.E191603

1) Do not bend below 0 °C.

Certificates

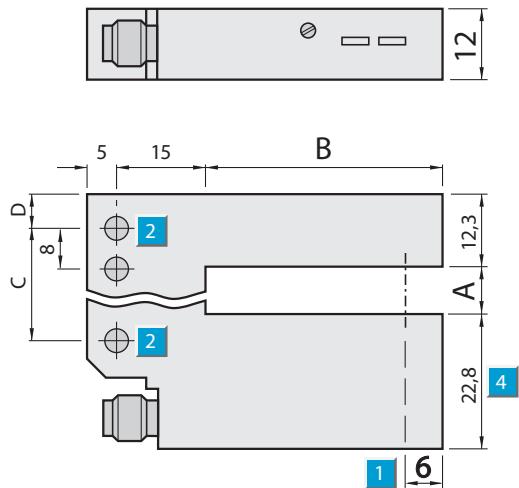
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Photobiological safety (IEC EN 62471)	✓

Classifications

ECLASS 5.0	27270909
ECLASS 5.1.4	27270909
ECLASS 6.0	27270909
ECLASS 6.2	27270909
ECLASS 7.0	27270909
ECLASS 8.0	27270909
ECLASS 8.1	27270909
ECLASS 9.0	27270909
ECLASS 10.0	27270909
ECLASS 11.0	27270909
ECLASS 12.0	27270909
ETIM 5.0	EC002720
ETIM 6.0	EC002720

ETIM 7.0	EC002720
ETIM 8.0	EC002720
UNSPSC 16.0901	39121528

Dimensional drawing

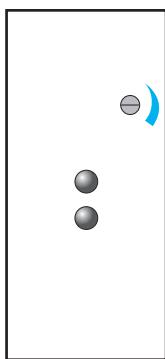


Dimensions in mm (inch)

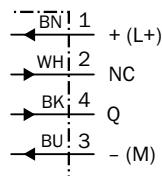
① Optical axis

② Mounting hole, Ø 4.2 mm

Adjustments



Connection diagram Cd-040



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