

Illustration may differ

Ordering information

Type	part no.
WF2-40B110	6058971

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

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
Light source	LED, Infrared light
Label detection	✓
Output function	Light/darkswitching, adjustable via reverse polarity
Safety-related parameters	
	MTTF _D 97 years
	DC _{avg} 0 %

Electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	< 10 %
Current consumption	40 mA ¹⁾
Switching frequency	10 kHz
Response time	≤ 30 μs
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
Protection class	III ²⁾
Circuit protection	Output Q short-circuit protected Interference pulse suppression

¹⁾ Without load.

²⁾ Reference voltage DC 50 V.

Connection type	
	Cable, 4-wire, 2 m

¹⁾ Without load.

²⁾ Reference voltage DC 50 V.

Mechanics

Housing material	Aluminum
Weight	Approx. 36 g ... 160 g ¹⁾

¹⁾ Depending on fork width.

Ambient data

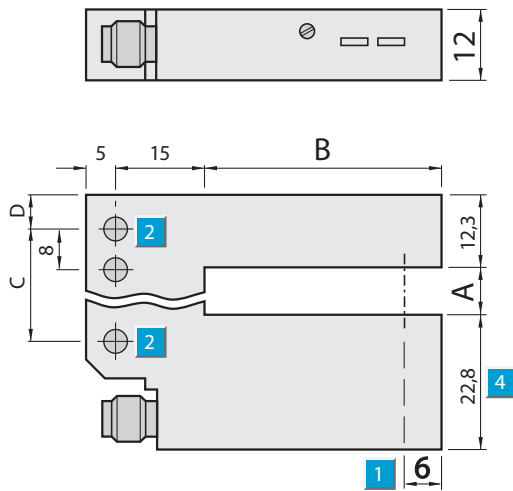
Ambient operating temperature	-20 °C ... +60 °C ¹⁾
Ambient temperature, storage	-20 °C ... +80 °C
Ambient light immunity	≤ 10,000 lx
Shock load	According to EN 60068-2-27
Enclosure rating	IP65
UL File No.	NRKH.E191603

¹⁾ Do not bend below 0 °C.

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

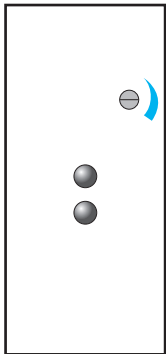
Dimensional drawing



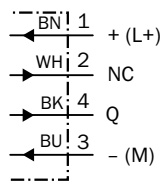
Dimensions in mm (inch)

- ① Optical axis
- ② Mounting hole, \varnothing 4.2 mm

Adjustments



Connection diagram Cd-040



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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.”

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