

WF2-B4210

WF

FORK SENSORS





Ordering information

Туре	part no.
WF2-B4210	6012062

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

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 = $U_V \le 2 \text{ V} / \text{LOW approx. 0 V}$ NPN: HIGH = approx. $U_V / \text{LOW} \le 2 \text{ V}$
Switching mode	Light/dark switching
Output current I _{max.}	100 mA
Circuit protection	Output Q short-circuit protected Interference pulse suppression
Enclosure rating	IP65

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

Mechanics

Housing material	Aluminum
Connection type	Male connector M8, 4-pin
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
Protection class	
UL File No.	NRKH.E191603

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)	✓

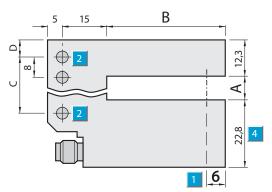
Classifications

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

 $^{^{1)}}$ Do not bend below 0 °C. $^{2)}$ Reference voltage DC 50 V.

Dimensional drawing





Dimensions in mm (inch)

- ① Optical axis
- ② Mounting hole, Ø 4.2 mm

Connection type and diagram



Light switching



Dark switching





Adjustments



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