

WF3T-B4210

WF

FORK SENSORS





Ordering information

Туре	part no.
WF3T-B4210	6020874

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 37.5 mm x 80 mm
Fork width	3 mm
Fork depth	60 mm
Light source	LED, Infrared light
Label detection	✓
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	
	≤ 50 µs
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
Teach-in	✓
Protection class	III ²⁾

¹⁾ Without load.

²⁾ Reference voltage DC 50 V.

Circuit protection	Output Q short-circuit protected Interference pulse suppression
Connection type	
	Male connector M8, 4-pin

Mechanics

Housing material	Aluminum
Weight	Approx. 60 g ¹⁾

¹⁾ Depending on fork width.

Ambient data

Ambient operating temperature	-20 °C +60 °C ¹⁾
Ambient temperature, storage	-30 °C +80 °C
Ambient light immunity	≤ 3,000 klx
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

Certificates

EU declaration of conformity	1
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	✓

 $^{^{1)}}$ Without load. $^{2)}$ Reference voltage DC 50 V.

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China RoHS	✓
cULus certificate	✓
Photobiological safety (IEC EN 62471)	✓

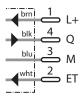
Pinouts



Adjustments



Connection diagram



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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.

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For us, that is "Sensor Intelligence."

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