

WF225-B4150

WF

FORK SENSORS





Ordering information

Туре	Part no.
WF225-B4150	6022139

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

Illustration may differ



Detailed technical data

Features

Functional principle	Fork sensor
Functional principle detail	Optical detection principle
Dimensions (W x H x D)	12 mm x 262.5 mm x 80 mm
Fork width	225 mm
Fork depth	60 mm
Light source	LED, infrared ¹⁾
Output function	Light/darkswitching, adjustable via reverse polarity

 $^{^{1)}}$ Pulsating.

Mechanics/electronics

Current consumption	40 mA ¹⁾
Switching frequency	0.5 kHz ²⁾
Response time	1 ms ³⁾
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
Connection type	Male connector M8, 4-pin
Protection class	III ⁴⁾
Circuit protection	Output Q short-circuit protected Interference pulse suppression

 $^{^{1)}}$ Without load.

²⁾ With light/dark ratio 1:1, without timer stage.

³⁾ Signal transit time with resistive load.

⁴⁾ Reference voltage DC 50 V.

⁵⁾ Depending on fork width.

Enclosure rating	IP65
Weight	Approx. 36 g 160 g ⁵⁾
Housing material	Metal, Aluminum

¹⁾ Without load.

Safety-related parameters

MTTF _D	97 years
DC _{avg}	0 %

Ambient data

Ambient light immunity	≤ 10,000 lx
Shock load	According to EN 60068-2-27
UL File No.	NRKH.E191603

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

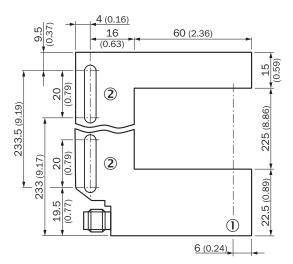
²⁾ With light/dark ratio 1:1, without timer stage.

³⁾ Signal transit time with resistive load.

⁴⁾ Reference voltage DC 50 V.

⁵⁾ Depending on fork width.

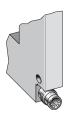
Dimensional drawing (Dimensions in mm (inch))



Adjustments

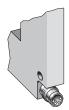


Connection type and diagram



Light switching





Dark switching



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