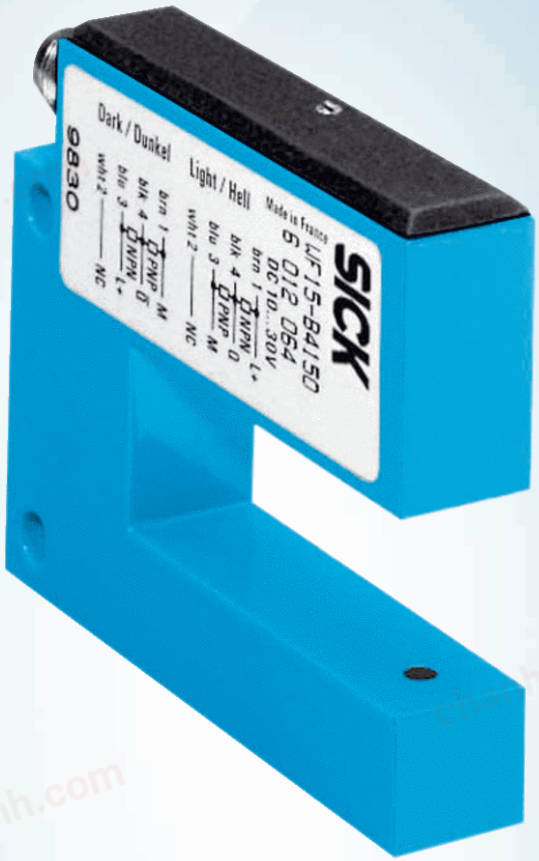
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Product data sheet



WF225-B4150

WF

FORK SENSORS

SICK
Sensor Intelligence.

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WF225-B4150 | WF

FORK SENSORS

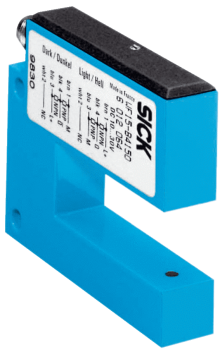


Illustration may differ

Ordering information

Type	Part no.
WF225-B4150	6022139

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

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 ≤ 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	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.

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

[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.

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

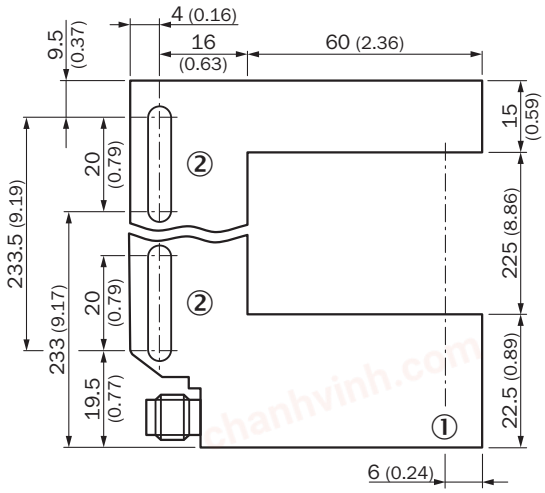
ECLASS 5.0	27270909
ECLASS 5.1.4	27270909
ECLASS 6.0	27270909
ECLASS 6.2	27270909
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ECLASS 8.0	27270909
ECLASS 8.1	27270909
ECLASS 9.0	27270909
ECLASS 10.0	27270909
ECLASS 11.0	27270909
ECLASS 12.0	27270909
ETIM 5.0	EC002720
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UNSPSC 16.0901	39121528

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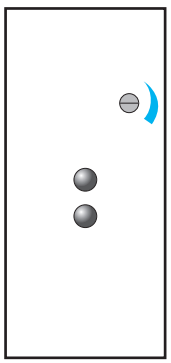
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FORK SENSORS

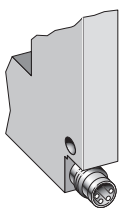
Dimensional drawing (Dimensions in mm (inch))



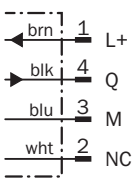
Adjustments

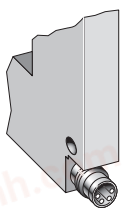


Connection type and diagram

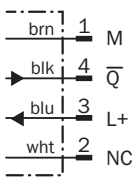


Light switching





Dark switching



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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.

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For us, that is "Sensor Intelligence."

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Contacts and other locations –www.sick.com