



SICK Sensor Intelligence.

FORK SENSORS

WFL15-95B416 | WFL

FORK SENSORS



Ordering information

Туре	Part no.
WFL15-95B416	6036837

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

Illustration may differ



Detailed technical data

Features

Optical detection principle
10 mm x 53.5 mm x 110 mm
15 mm
95 mm
0.05 mm
Plus/minus button (Teach-in, sensitivity, light/dark switching)
2-point teach-in
40 mA ¹⁾
± 20 µs
40 µs
PNP/NPN
PNP: HIGH = $U_V \le 2 V / LOW$ approx. 0 V NPN: HIGH = approx. $U_V / LOW \le 2 V$
Light/dark switching
100 mA
100 ms
Male connector M8, 4-pin
U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
IP65
Approx. 36 g 160 g ²⁾

Aluminum

Housing material

¹⁾ Without load.

²⁾ Depending on fork width.

WFL15-95B416 | WFL

FORK SENSORS

Safety-related parameters

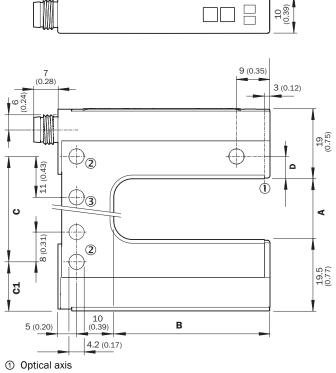
MTTF _D	80 years
DC _{avg}	0 %
Ambient data	
Shock load	According to EN 60068-2-27
Classifications	
ECLASS 5.0	27270909
ECLASS 5.1.4	27270909
ECLASS 6.0	27270909
ECLASS 6.2	27270909
ECLASS 7.0	27270909
ECLASS 8.0	27270909
ECLASS 8.1	27270909
ECLASS 9.0	27270909
ECLASS 10.0	27270909
ECLASS 11.0	27270909
ECLASS 12.0	27270909
ETIM 5.0	EC002720
ETIM 6.0	EC002720
ETIM 7.0	EC002720
ETIM 8.0	EC002720
UNSPSC 16.0901	39121528

WFL15-95B416 | WFL

FORK SENSORS

Dimensional drawing (Dimensions in mm (inch))

WFL - Plus/minus buttons



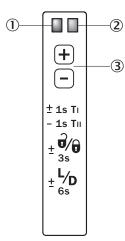
Dimensions	in mm	(inch)
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	A Fork width	B Fork depth	С	C1	D
WFL2	2	42/59/95	14	13.5	6
	(0.08)	(1.65/2.32/3.74)	(0.55)	(0.53)	(0.24)
WFL5	5	42/59/95	14	15	4,5
	(0.20)	(1.65/2.32/3.74)	(0.55)	(0.59)	(0.18)
WFL15	15	42/59/95	27	13.5	6
	(0.59)	(1.65/2.32/3.74)	(1.06)	(0.53)	(0.24)
WFL30	30	42/59/95	42	13.5	6
	(1.18)	(1.65/2.32/3.74)	(1.65)	(0.53)	(0.24)
WFL50	50	42/59/95	51	24.5	6
	(1.97)	(1.65/2.32/3.74)	(2.01)	(0.96)	(0.24)
WFL80	80	42/59/95	81	24.5	6
	(3.15)	(1.65/2.32/3.74)	(3.19)	(0.96)	(0.24)
WFL120	120	42/59/95	121	24.5	6
	(4.72)	(1.65/2.32/3.74)	(4.76)	(0.96)	(0.24)

2 Mounting hole, Ø 4.2 mm
 3 WFL50/80/120 only

Adjustments

Adjustment: teach-in via plus/minus buttons (WFxx-B416)



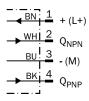
① Function signal indicator (yellow), switching output

② Function indicator (red)

③ "+"/"-" buttons and function button

Connection diagram

Cd-086

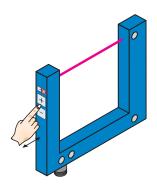


Concept of operation

Teach-in

The switching threshold is set automatically. Fine adjustment is possible using the "+"/"-" buttons.

1. No object or substrate in the beam path



Press the "+" and "-" buttons together and hold for 1 second. The red function indicator flashes slowly.

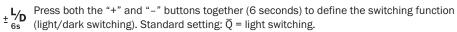
Notes

Material speed = 0 (machine at a standstill).

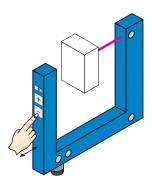


Once teach-in process is complete, the switching threshold can be adjusted at any time using the "+" or "-" button. To make minor adjustments, press the "+" or "-" button once. To configure settings quickly, keep the "+" or "-" button pressed for longer.

 $\pm \frac{2}{3s}$ Press both the "+" and "-" buttons together (3 seconds) to lock the device and prevent unintentional actuation.



2. Object or label in the beam path



Press the "-" button for 1 second. Red function indicator goes out.

FORK SENSORS

Recommended accessories

Other models and accessories -> www.sick.com/WFL

	Brief description	Туре	Part no.
Others			
	 Connection type head A: Male connector, M8, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0804-G	6037323
N.	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U14- 050VA3XLEAX	2095889

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.

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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

