

WFE-080060B337

WFE

FORK SENSORS





Ordering information

Туре	part no.		
WFE-080060B337	1106556		

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





Detailed technical data

Features

Dimensions (W x H x D)	10 mm x 109.3 mm x 78.5 mm
Fork width	80 mm
Fork depth	60 mm
Light source	LED, visible red light
Minimum detectable object (MDO)	0.5 mm
Display	LED indicator green: power on LED indicator, yellow: Status switching output Q
Adjustment	Potentiometer, light/dark switching
Safety-related parameters	
MTTF _D	1,217 years
DC _{avg}	0 %
T _M (mission time)	20 years

Electronics

Supply voltage	10 V DC 30 V DC
Ripple	< 10 %
Current consumption	< 30 mA ¹⁾
Initialization time	100 ms
Switching frequency	5 kHz
Response time	
	≤ 100 µs
Stability of response time	± 20 μs
Switching output	Push-pull: PNP/NPN

¹⁾ Without load.

Switching output (voltage)	Push-pull: PNP/NPN High = $U_V - < 2 \text{ V/Low}$: $\leq 2 \text{ V}$
Switching mode	Light/dark switching
Switching output hysteresis	< 0.1 mm
Output current I _{max.}	100 mA
Protection class	III
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Connection type	
	Connector M8, 3-pin

¹⁾ Without load.

Mechanics

Housing material	ABS Coated carbon steel (frame)
Weight	Approx. 120 g

Ambient data

Ambient operating temperature	-20 °C +60 °C
Ambient temperature, storage	-40 °C +75 °C
Ambient light immunity	≤ 10,000 lx
Shock load	According to IEC 60068-2-27 (30 g/11 ms)
Enclosure rating	IP67
UL File No.	NRKH.E348498 & NRKH7.E348498

Connection type/pinouts

Connection type	
	Connector M8, 3-pin
Pinouts	
BN 1	. + (L+)
BU 3	- (M)
BK 4	Q

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

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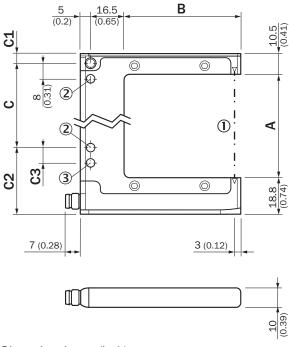
FORK SENSORS

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	✓
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	1
China RoHS	1
cULus certificate	1
Photobiological safety (IEC EN 62471)	1

Dimensional drawing WFE-xxxxxxx3xx



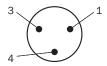
Dimensions in mm (inch)

- ① Optical axis
- ② Mounting hole, Ø 4.3 mm
- 3 only WFE-050/-080/-120/-180

Туре	A (fork width)	B (fork depth)	С	C1	C2	C 3
WFE- 030040 xxxx	30 (1.18)	39 (1.54)	30 (1.18)	5 (0.2)	24.3 (0.96)	-
WFE- 050060 xxxx	50 (1.97)	57 (2.25)	40 (1.57)	5 (0.2)	34.3 (1.35)	8 (0.31)
WFE- 080060 xxxx	80 (3.15)	57 (2.24)	70 (2.76)	5 (0.2)	34.3 (1.35)	8 (0.31)
WFE- 120120 xxxx	120 (4.72)	121.5 (4.78)	100 (3.94)	15.5 (0.61)	33.8 (13.31)	10 (0.39)

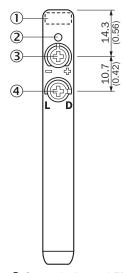
Туре	A (fork width)	B (fork depth)	С	C1	C2	C3
WFE- 180120 xxxx	180 (7.09)	121.5 (4.78)	152 (5.98)	20.5 (0.81)	36.8 (1.45)	8 (0.31)

Pinouts, see table Technical data: Connection type/pinouts



Connector M8, 3-pin

Adjustments WFE-xxxxxxxx7



- $\ensuremath{\textcircled{1}}$ Status indicator LED, yellow: Status switching output
- ② LED indicator green: power
- 3 Potentiometer for sensitivity adjustment
- 4 Light/ dark rotary switch: L = light switching, D = dark switching

Recommended accessories

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

	Brief description	Туре	part no.
connectors and cables			
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077
	 Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322
· C	Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF8U13-050VA1XLEAX	2095884

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