



WS/WE170-N132





Ordering information

Туре	Part no.
WS/WE170-N132	6010183

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	12 mm x 37 mm x 28.6 mm
Housing design (light emission)	Rectangular
Sensing range max.	≥ 0 m
Sensing range	0 m 7 m
Type of light	Visible red light
Light source	LED

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Power consumption	30 mA ¹⁾
Switching output	NPN
Switching mode	Light/dark switching
Switching mode selector	Selectable via L/D control cable
Response time	\leq 1 ms $^{2)}$
Connection type	Cable, 2 m ³⁾
Cable material	PVC
Conductor cross-section	0.18 mm ²
Housing material	Stainless steel, Stainless steel/ABS
Optics material	Plastic, PC
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

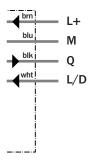
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load.

Classifications

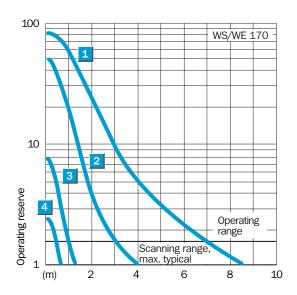
ECI@ss 5.0	27270901
ECI@ss 5.1.4	27270901
ECI@ss 6.0	27270901
ECI@ss 6.2	27270901
ECI@ss 7.0	27270901
ECI@ss 8.0	27270901
ECI@ss 8.1	27270901
ECI@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
UNSPSC 16.0901	39121528

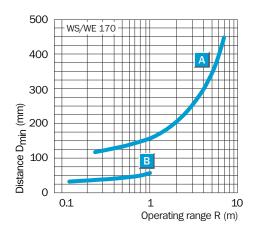
Connection diagram



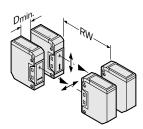
²⁾ Signal transit time with resistive load. ³⁾ Do not bend below 0 °C.

Characteristic curve

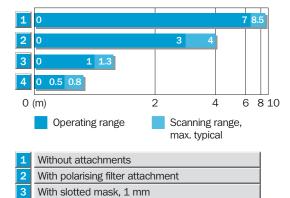




Functional principle

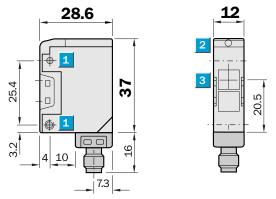


Sensing range diagram



With polarising filter and slotted mask, 1 mm

Dimensional drawing (Dimensions in mm (inch))



- Mounting hole, Ø 3 mm with integrated M3 thread
 LED signal strength indicator, red: Light received>=switching threshold
- 3 Center of optical axis, sender (WS) and receiver (WE)

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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.

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."

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