



WL170-P430





Ordering information

Туре	Part no.
WL170-P430	6010190

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	12 mm x 37 mm x 28.6 mm
Housing design (light emission)	Rectangular
Sensing range max.	0.01 m 4 m ¹⁾
Sensing range	$0.01~\mathrm{m}$ $3~\mathrm{m}^{-2)}$
Type of light	Visible red light
Light source	LED

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Power consumption	30 mA ¹⁾
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via L/D control cable
Response time	\leq 0.7 ms $^{2)}$
Connection type	Male connector M8, 4-pin
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load

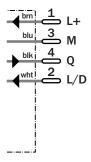
²⁾ Reflector P250.

²⁾ Signal transit time with resistive load.

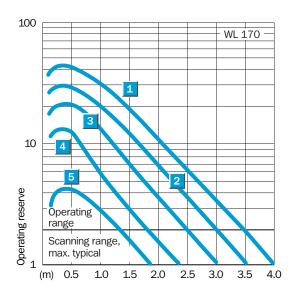
Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
ECI@ss 8.0	27270902
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
UNSPSC 16.0901	39121528

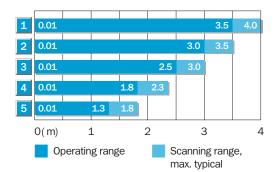
Connection diagram



Characteristic curve



Sensing range diagram

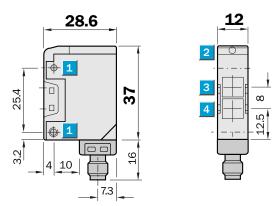


Re	flector type	Operating range
1	PL 80 A	0.01 – 3.5 m
2	PL 50 A	0.01 – 3.0 m
	PL 40 A	0.01 – 3.0 m
3	P 250	0.01 – 2.5 m
	PL 30 A	0.01 – 2.5 m
	PL 31	0.01 – 2.5 m
4	PL 20	0.01 – 1.8 m
5	Reflective tape	0.01 – 1.3 m
	«Diamond Grade» 90x90 mm	

Adjustments possible



Dimensional drawing (Dimensions in mm (inch))



- ① Mounting hole, Ø 3 mm with integrated M3 thread
 ② LED signal strength indicator, red: Light received>=switching threshold
 ③ Optical axis, receiver
- Optical axis, sender

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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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