



Photoelectric sensors
W4-3, Photoelectric retro-reflective sensor

WL4-3P3410S19



Model Name > [WL4-3P3410S19](#)
Part No. > [1029889](#)



Illustration may differ

At a glance

- Sensing range from 0.4 ... 9 m
- Outstanding size/performance value
- Rugged plastic housing with M3 threaded metal inserts
- IR LED light

Your benefits

- Sensor can be hidden behind a non-transparent window, which normally blocks visible light
- Less contamination due to a high operating reserve on small reflectors
- Reliable operation in harsh environments



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	16 mm x 39.5 mm x 12 mm
Housing design (light emission):	Rectangular
Sensing range max.:	≤ 4.5 m
Sensing range:	0.4 m ... 9 m ¹⁾
Type of light:	Infrared light
Light source:	LED ²⁾
Wave length:	850 nm
Light spot size (distance):	Ø 75 mm (1.5 m)

¹⁾ PL80A ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple::	< 5 Vpp ^{2) 3)}
Power consumption:	≤ 20 mA ⁴⁾
Output type:	PNP
Switching mode:	Light switching
Output current I _{max} .:	≤ 100 mA
Response time:	< 0.5 ms ⁵⁾
Switching frequency:	1,000 Hz ⁶⁾
Connection type:	Cable with connector M12, 4-pin, 150 mm ⁷⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²

Cable diameter:	3.4 mm
Circuit protection:::	A, C, D ^{8) 9) 10)}
Protection class:	III
Weight:	30 g
Polarisation filter:	-
Special device:	-
Optics material:	PMMA
Enclosure rating:	IP 67 IP 66
Ambient operating temperature:	-40 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493
Housing material:	ABS, Plastic

1) Limit values 2) 3) May not exceed or fall short of V_S tolerances 4) Without load 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) Do not bend below 0 °C 8) A = V_S connections reverse-polarity protected 9) C = interference suppression 10) D = outputs overcurrent and short-circuit protected

Connection type



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