

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Ripple	$\leq 5 V_{pp}$ ²⁾
Power consumption	$\leq 20 \text{ mA}$ ³⁾
Output type	PNP
Switching mode	Light switching
Output current $I_{max.}$	$< 50 \text{ mA}$
Response time	$< 0.5 \text{ ms}$ ⁴⁾
Switching frequency	1,000 Hz ⁵⁾
Connection type	Cable with M8 male connector, 4-pin, 200 mm ⁶⁾
Cable material	PVC
Cable diameter	$\varnothing 3 \text{ mm}$
Circuit protection	A ⁷⁾ B ⁸⁾ D ⁹⁾
Polarisation filter	✓
Housing material	Plastic, ABS/PC, Plastic, PMMA
Optics material	Plastic, PMMA
Enclosure rating	IP67
Special feature	Detecting transparent objects
Ambient operating temperature	$-20 \text{ }^{\circ}\text{C} \dots +50 \text{ }^{\circ}\text{C}$
Ambient storage temperature	$-40 \text{ }^{\circ}\text{C} \dots +75 \text{ }^{\circ}\text{C}$
UL File No.	NRKH.E181493

¹⁾ Limit values.

²⁾ May not exceed or fall below U_V tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ Do not bend below $0 \text{ }^{\circ}\text{C}$.

⁷⁾ A = V_S connections reverse-polarity protected.

⁸⁾ B = output reverse-polarity protected.

⁹⁾ D = outputs overcurrent and short-circuit protected.

Classifications

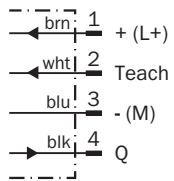
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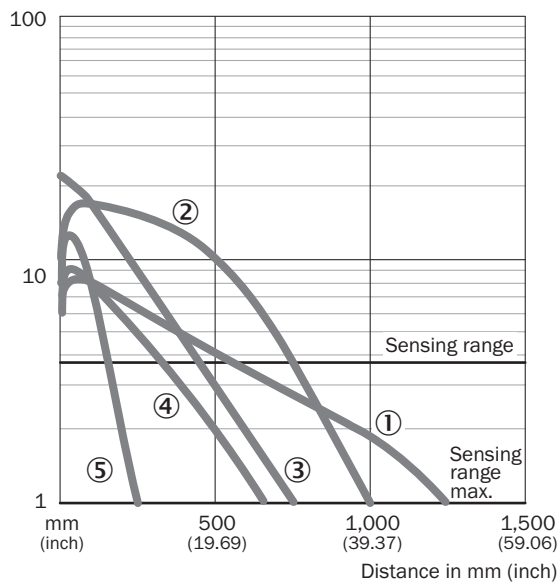
Connection diagram

Cd-092



Characteristic curve

WL2S-2



- ① Reflector P250F
- ② Reflector PL20F
- ③ Reflective tape REF-AC1000
- ④ PL10F reflector
- ⑤ Reflector PL8FH