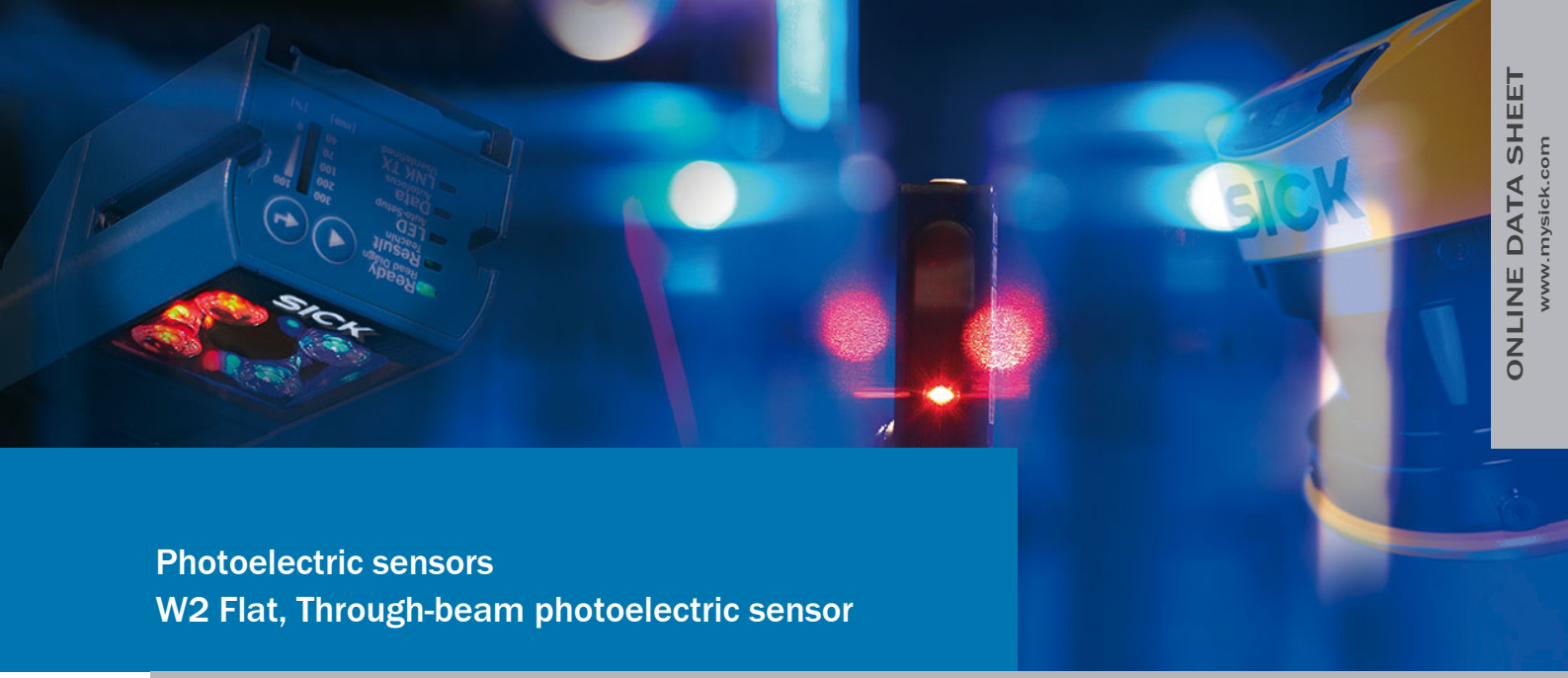


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Photoelectric sensors
W2 Flat, Through-beam photoelectric sensor

WS/WE2F-P110



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Sensor Intelligence.

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Photoelectric sensors
W2 Flat, Through-beam photoelectric sensor

Type	**> WS/WE2F-P110**
Part No.	**> 6049355**



Illustration may differ

At a glance

- Maximum sensing range of 500 mm
- Rugged housing with metal sleeves for 2 mm fixing screws included with delivery
- 0.5 ms response time
- IP 67 enclosure rating
- Red light

Your benefits

- A very fast response time offers application flexibility for efficient machines with short or fast cycle times
- Smart, optimal design fits into small spaces, providing increased application flexibility

Features

Sensor/detection principle:	Through-beam photoelectric sensor
Dimensions (W x H x D):	12 mm x 20 mm x 3.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 0.5 m
Sensing range:	0 m ... 0.4 m
Type of light:	Visible red light
Light source:	LED [1)]
Wave length:	660 nm
Focus adjustable:	-
Light spot size (distance):	X Ø 10 mm (100 mm)

[1)] Average service life: 100,000 h at T_U = +25 °C

Mechanics/electronics

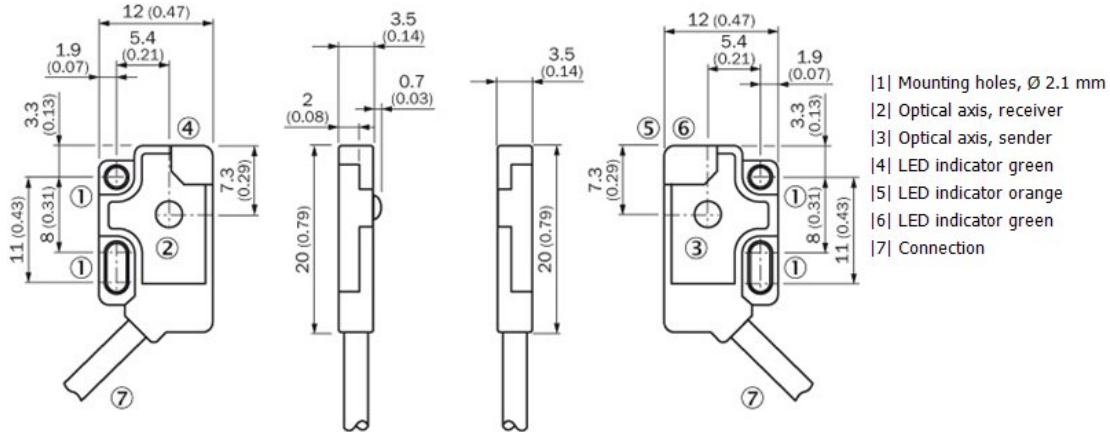
Supply voltage:	12 V DC ... 24 V DC [1)]
Ripple:	≤ 5 Vpp [2)]
Output type:	PNP
Switching mode:	Light switching
Output current Imax.:	≤ 50 mA
Response time:	≤ 0.5 ms [3)]
Switching frequency:	1,000 Hz [4)]
Connection type:	Cable, 3-wire, 2 m [5)]
Cable material:	PVC

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Cable diameter:	Ø 2.4 mm
Circuit protection:::	A, C, D [6) 7) 8)]
Weight:	20 g
Polarisation filter:	-
Special device:	-
Reverse polarity protection:	✓
Short-circuit protection:	✓
Optics material:	PC
Enclosure rating:	IP 67
Ambient operating temperature:	-20 °C ... +55 °C
Ambient storage temperature:	-40 °C ... +75 °C
Signal voltage PNP HIGH/LOW:	Approx. VS - 1.8 V／0 V
Signal voltage NPN HIGH/LOW:	Approx. VS／< 1.8 V
Housing material:	Plastic, PC

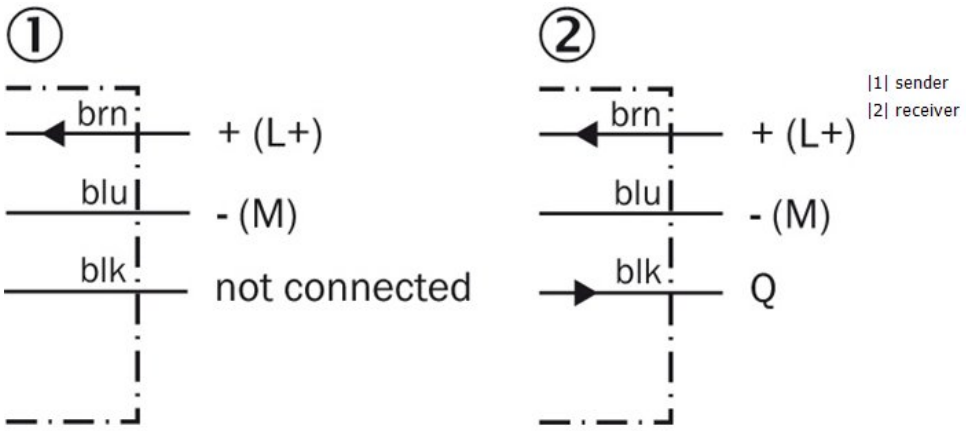
[1)] +- 10 % [2)] May not exceed or fall below U_v tolerances [3)] Signal transit time with resistive load [4)] With light/dark ratio 1:1 [5)] Do not bend below 0 °C [6)] A = V_S connections reverse-polarity protected [7)] C = interference suppression [8)] D = outputs overcurrent and short-circuit protected

Dimensional drawing

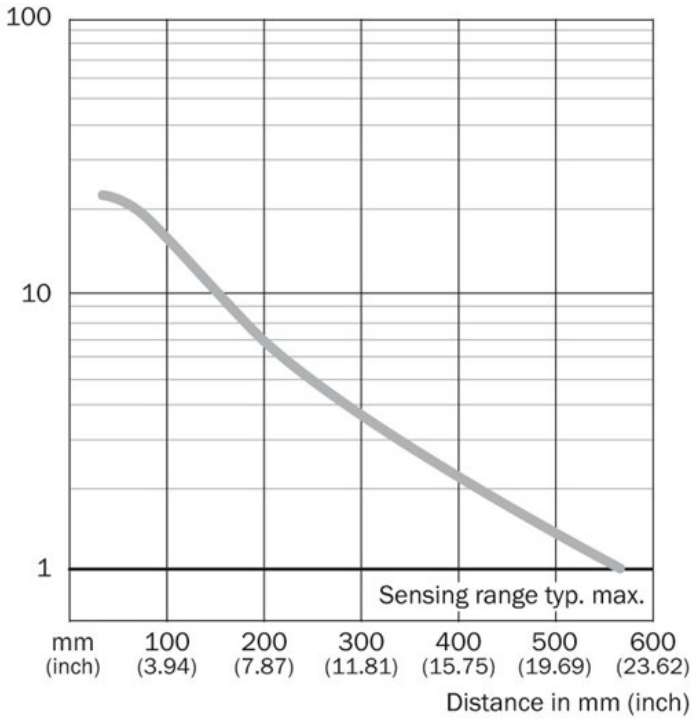


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Connection diagram

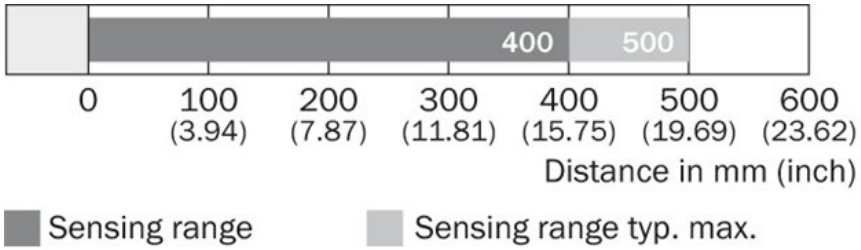


Characteristic curve

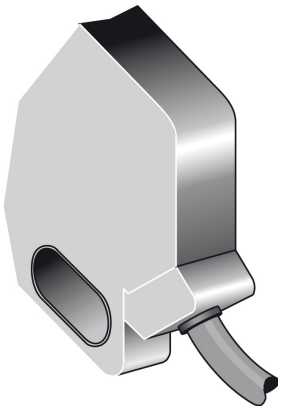


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Sensing range diagram



Connection type



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A4 4c int43

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