

MHT15-P3347V MH15V

CYLINDRICAL PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
MHT15-P3347V	1043811

Other models and accessories → www.sick.com/MH15V

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Energetic
Dimensions (W x H x D)	18 mm x 18 mm x 52.9 mm
Housing design (light emission)	Cylindrical
Housing length	52.9 mm
Thread diameter (housing)	M18 x 1
Optical axis	Axial
Sensing range max.	10 mm 350 mm ¹⁾
Sensing range	10 mm 250 mm
Focus	Approx. 4.5°
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 50 mm (350 mm)
Angle of dispersion	Approx. 4.5°
Wave length	950 nm
Adjustment	Potentiometer, 270° (Sensing range)
Special applications	Hygienic and washdown zones

 $^{^{1)}\,\}mbox{Object}$ with 90% remission (based on standard white, DIN 5033).

 $^{^{2)}}$ Average service life: 100,000 h at T_U = +25 °C.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	30 mA ³⁾
Switching output	PNP
Switching mode	Light switching
Signal voltage PNP HIGH/LOW	Uv - (< 2,9 V) / ca. 0 V
Output current I _{max.}	≤ 100 mA
Response time	≤ 1.25 ms ⁴⁾
Switching frequency	400 Hz ⁵⁾
Connection type	Male connector M12, 4-pin
Circuit protection	A ⁶⁾ C ⁷⁾ D ⁸⁾
Protection class	III
Weight	50 g
Housing material	Stainless steel, Stainless steel V4A (1.4404, 316L)
Optics material	Plastic, PMMA
Enclosure rating	IP67 IP68 IP69K
Ambient operating temperature	-25 °C +55 °C ⁹⁾
Ambient temperature, storage	-25 °C +70 °C
UL File No.	NRKH.E189383 & NRKH7.E189383

¹⁾ Limit values.

Classifications

eCl@ss 5.0	27270903
eCl@ss 5.1.4	27270903
eCl@ss 6.0	27270903
eCl@ss 6.2	27270903
eCl@ss 7.0	27270903
eCl@ss 8.0	27270903
eCl@ss 8.1	27270903
eCl@ss 9.0	27270903
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904

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.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

 $^{^{7)}}$ C = interference suppression.

 $^{^{8)}}$ D = outputs overcurrent and short-circuit protected.

 $^{^{9)}\,\}mbox{Use}$ at higher ambient temperatures reduce the sender LED lifetime .

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eCl@ss 12.0	27270903
ETIM 5.0	EC001821
ETIM 6.0	EC001821
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

Connection type

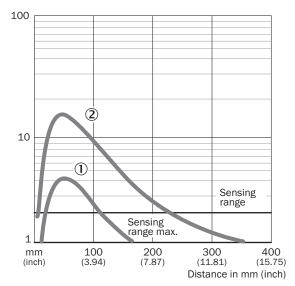


Connection diagram

Cd-066

Characteristic curve

MHT15V, 350 mm



- ① Sensing range on gray, 18 % remission
- ② Sensing range on white, 90% remission

Sensing range diagram

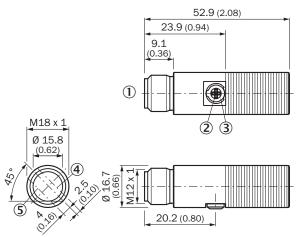
MHT15V, 350 mm



- ① Sensing range on gray, 18 % remission
- ② Sensing range on white, 90% remission

Dimensional drawing (Dimensions in mm (inch))

MHT15V



- ① M12 male device connector, 4-pin
- ② Sensitivity control 270°
- ③ Yellow LED indicator,-lights continuously: Light reception> reserve factor 1.3-blinks: Light reception, reserve factor > 1.0 ... < 1.3
- ④ Optical axis, sender
- ⑤ Optical axis, receiver

Recommended accessories

Other models and accessories → www.sick.com/MH15V

	Brief description	Туре	Part no.
Plug connecto	rs and cables		
6	Head A: female connector, M12, 4-pin, straight Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-1204-G05MNI	6052615

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For us, that is "Sensor Intelligence."

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