

MHT15-P2347

MH15

CYLINDRICAL PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
MHT15-P2347	1026112

Other models and accessories → www.sick.com/MH15

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, Energetic
Dimensions (W x H x D)	18 mm x 18 mm x 35.8 mm
Housing design (light emission)	Cylindrical
Housing length	35.8 mm
Thread diameter (housing)	M18 x 1
Optical axis	Axial
Sensing range max.	10 mm 350 mm ¹⁾
Sensing range	10 mm 250 mm
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)

 $^{^{1)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC 30 ¹⁾
Ripple	\leq 5 V_{pp}^{2}

¹⁾ Limit values.

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

 $^{^{2)}}$ 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 °C.

 $^{^{7)}}$ A = V_S connections reverse-polarity protected.

⁸⁾ C = interference suppression.

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

Power consumption	30 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
Response time	≤ 1.25 ms ⁴⁾
Switching frequency	400 Hz ⁵⁾
Connection type	Cable, 3-wire, 2 m ⁶⁾
Cable material	PVC
Conductor cross-section	0.14 mm²
Cable diameter	Ø 3.7 mm
Circuit protection	A ⁷⁾ C ⁸⁾ D ⁹⁾
Protection class	III
Weight	90 g
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67 IP69K
Ambient operating temperature	-25 +55 °C
Ambient storage temperature	-25 +70 °C
UL File No.	NRKH.E189383 & NRKH7.E189383

¹⁾ Limit values.

Classifications

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

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ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

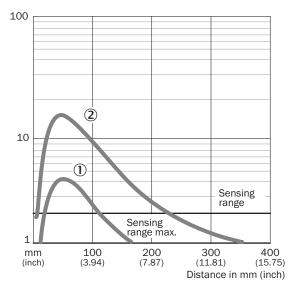
Connection diagram

Cd-043



Characteristic curve

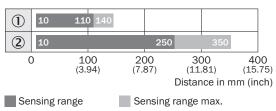
MHT15V, 350 mm



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

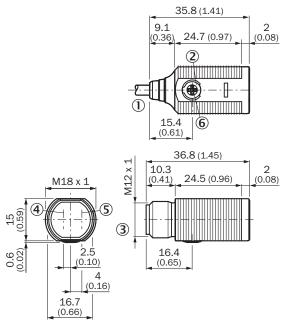
Sensing range diagram

MHT15V, 350 mm



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

Dimensional drawing (Dimensions in mm (inch))



- ① Connection cable 2 m
- ② Sensitivity control 270°
- ③ Yellow LED indicator:- lights continuously:Light reception > reserve factor 1.3- blinks: Light reception < reserve factor 1.3 but > switching threshold 1
- 4 M12 male device connector, 3-pin

Recommended accessories

Other models and accessories → www.sick.com/MH15

	Brief description	Туре	Part no.
Plug connectors and cables			
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322

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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.

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