

MHT15-N3249







Photoelectric sensors MH15, Photoelectric proximity sensor, energetic

Model Name > MHT15-N3249
Part No. > 1026115





Illustration may differ

At a glance

- · Energetic variant with a long sensing distance
- Sensitivity control via 270° potentiometer
- · Indicator LED with an active switching output and operating reserve
- · Straight or right-angle housing designs available
- 100 mm or 350 mm sensing distances for straight housing; 90 mm or 250 mm (each with 90% remission) for right-angle housings
- · Mounting accessories (M18 nuts and snap ring) are included
- IP 69K-tested housing offers a long service life that withstands harsh environments

Your benefits

- Reliably detects and positions parts without a reflector, saving installation time and costs
- · Shortest M18 body on the market, saving installation space
- Flush mounting via snap ring reduces setup time and prevents obstructions to material flow on conveyor systems
- MHT15 is compatible with competitor sensors for easy replacement that saves installation time and costs
- IP 69K-tested housing offers a long service life that withstands harsh environments, reducing maintenance time and costs



Features

Angle of dispersion:

Sensor/detection principle: Photoelectric proximity sensor, energetic

Housing design (light emission): Cylindrical, angled

Housing length: 50.3 mm
Thread diameter (housing): M18 x 1
Optical axis: radial

Sensing range max.:

Sensing range:

15 mm ... 250 mm 1)

Type of light:

Light source:

Wave length:

15 mm ... 180 mm

Infrared light

LED 2)

Wave length:

950 nm

Adjustment: Potentiometer, 270 ° Light spot size (distance): Ø 40 mm (250 mm)

Ca. 4.5 °

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) 2) Average service life of 100,000 h at T_{Λ} = +25 °C

Mechanics/electronics

Supply voltage: $10 \text{ V DC } \dots 30^{-1}$ Ripple: $\leq 5 \text{ Vpp}^{2}$ Power consumption: 30^{-1}

Output type: NPN

Switching mode:

Signal voltage NPN HIGH/LOW:

Output current Imax.:

Dark switching

Uv/< 2,9 V

100

Response time: \leq 1.25 ms $^{4)}$ Switching frequency: $400^{5)}$

Connection type: Connector M12, 3-pin A, C, D 6) 7) 8)

Circuit protection:::

Protection class:

Weight:

A, C, I

III

8 g

Housing material:

Optics material:

PMMA

Enclosure rating:

IP 67
IP 69K

Ambient operating temperature:

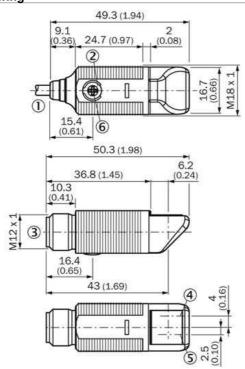
-25 ... 55 °C

Ambient operating temperature: $-25 \dots 55 \,^{\circ}\text{C}$ Ambient storage temperature: $-25 \dots 70 \,^{\circ}\text{C}$

UL File No.: NRKH.E189383 & NRKH7.E189383

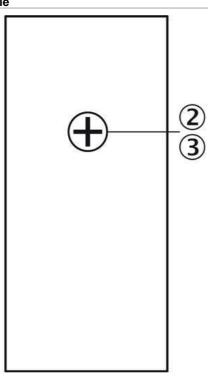
¹⁾ Limit values 2) May not exceed or fall short of V_S tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V_S connections reverse-polarity protected 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected

Dimensional drawing

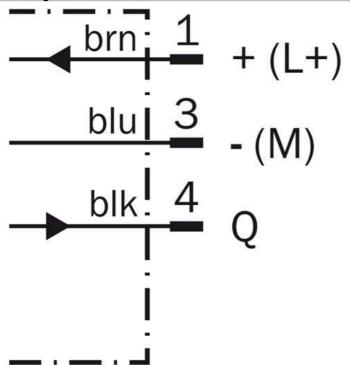


- |1| Connection cable 2 m
- |2| Sensitivity adjustment 270°
- Yellow LED indicator:- lights
 continuously:light reception> reserve factor 1
 .3- blinks: light reception < reserve factor 1.3 but > swit

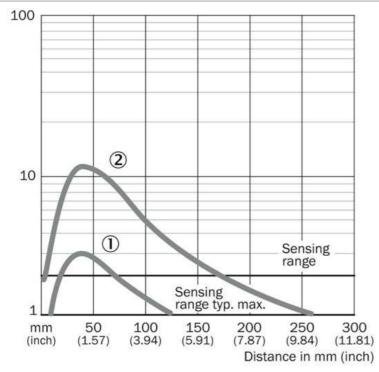
Adjustments possible



- |2| Sensitivity adjustment 270°
- |3| Yellow LED indicator,-lights continously: Light reception> reserve factor 1,3-blinks: Light recepti on >reserve factor 1,3but light reception>switching thres



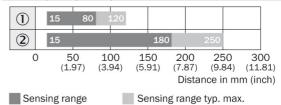
Characteristic curve



Connection type



Sensing range diagram



- $\ensuremath{\textcircled{1}}$ Sensing range on gray, 18 % remission
- $\ensuremath{\text{@}}$ Sensing range on white, 90 % remission

Australia

Phone +61 3 9457 0600 1800 33 48 02 - tollfree

E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66

E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900

E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44 E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50

E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300

Danmark

Phone +45 45 82 64 00

E-Mail ghk@sick.com.hk

E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301

E-Mail info@sick.de

España

Phone +34 93 480 31 00

E-Mail info@sick.es

France

Phone +33 1 64 62 35 00

E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121

E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333

E-Mail info@sick-india.com

Israel

Phone +972-4-6881000

E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41

E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112

E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680

E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44

E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00

E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Polska

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120

E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30

E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39

E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732

E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990

E-Mail office@sick.si

South Africa

Phone +27 11 472 3733

E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4 E-Mail info@sickkorea.net

E-Maii imo@sickkorea.nei

Suomi

Phone +358-9-25 15 800

E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00

E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288

E-Mail sales@sick.com.tw

Türkive

Phone +90 (216) 528 50 00

E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878

E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780

1 (800) 325-7425 - tollfree

E-Mail info@sickusa.com

More representatives and agencies

at www.sick.com

