

NT6-07018







# Contrast sensors NT6, NT6

Model Name > NT6-07018 Part No. > 1012730





Illustration may differ

## At a glance

- · RGB, white LEDs and red lasers
- Bar graph display visually indicates contrast performance (KT5, KT10)
- High switching frequency
- Various teach-in and manual potentiometer versions to meet individual requirements
- · Automatic gloss adjustment for highly reflective materials
- A range of sensing distances and light spots for numerous applications
- · Tough, compact metal housing

#### Your benefits

- Able to process all packaging materials (yellow mark/white background), resulting in high machine throughput
- Reliable operation, even with jittering webs and high-gloss materials
- · High positioning accuracy improves packaging quality
- · Simple teach-in and highly visible light spot ensure easy setup
- · Simple to integrate into machines due to compact design
- · Interchangeable lenses for maximum mounting flexibility
- A range of sensing distances, light spot directions and a 90° rotatable plug enables optimal integration
- · Application-specific teach-in processes provide maximum flexibility

The product has been discontinued. Please contact your SICK sales representative for more information about a replacement product.



#### **Features**

Dimensions (L x W x H): 64 mm x 80 mm x 30.4 mm

Sensing distance: 9 mm
Sensing distance tolerance:  $\pm 2 \text{ mm}$ 

Light source 17: LED red, green

Light emission:

Long and short side of housing, exchangeable

Light spot size:

1.5 mm x 4 mm (red), 1.5 mm x 5 mm (green)

Light spot direction <sup>2)</sup>: Vertical

Adjustment: Manual adjustment, potentiometer

Function: Deactivation delay, 50 ms

1) Average service life of 10,000 h at  $T_{\Delta}$  = + 25 °C  $^{2)}$  In relation to long side of housing

### Mechanics/electronics

Supply voltage Vs: DC 10 V ... 30 V

Ripple:  $\leq$  5 Vpp Current consumption  $\stackrel{1)}{:}:$  < 80 mA Switching frequency  $\stackrel{2)}{:}:$  10 kHz Response time  $\stackrel{3)}{:}:$  > 50  $\mu$ s

Output type: PNP: HIGH = VS- ≤ 2 V/LOW approx. 0 V

Analog output QA: 0.15 V ... 6 V

Connection type: Connector M12, 4-pin 4)

Circuit protection: Output Q short-circuit protected, Interference suppression, VS

connections reverse-polarity protected

Enclosure rating: IP 67

Weight: Approx. 540 g (with cable)

Housing material: Die-cast zinc Output current Imax.: 200 mA

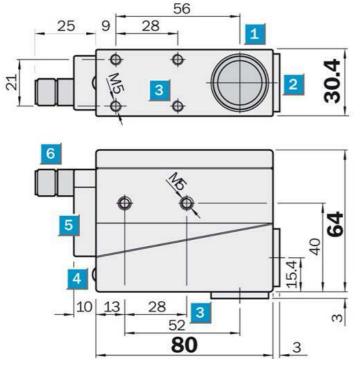
1) Without load 2) With light/dark ratio 1:1 3) Signal transit time with resistive load 4) Do not bend below 0 °C

### **Ambient data**

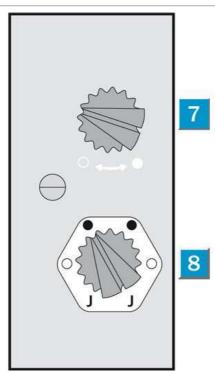
Ambient temperature: Operation: 0 ... +50 °C, Storage: -25 ... +75 °C

Shock load: According to IEC 60068

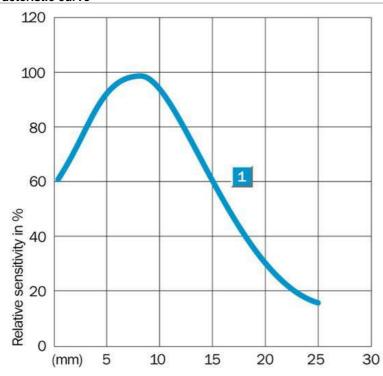
## **Dimensional drawing**



## Adjustments



# Characteristic curve



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

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

