

NT6-13012







# Contrast sensors NT6, NT6

Model Name > NT6-13012 Part No. > 1005823





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 mm

Light source 1): 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>: Horizontal

Adjustment: Manual adjustment, potentiometer

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

#### Mechanics/electronics

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

Ripple: ≤ 5 Vpp Current consumption 1):
Switching frequency 2): < 80 mA 10 kHz Response time <sup>3)</sup>: > 50 µs

Output type: B: HIGH = Uv - < 2 V/LOW = < 2 V

Analog output QA: 0.15 V ... 6 V

Connection type: 2 m cable, 4 x 0.34 mm, shielded, PVC, diameter 6 mm, with plug

T3104/1

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

Enclosure rating: **IP 67** 

Weight: Approx. 540 g (with cable)

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

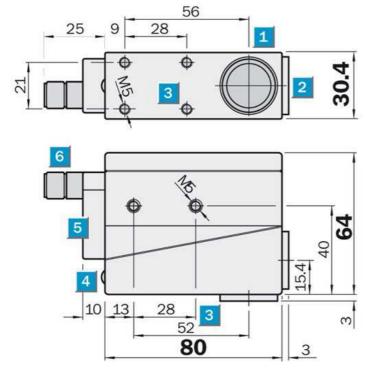
1) Without load 2) With light/dark ratio 1:1 3) Signal transit time with resistive load 4) Do not bend below 0 °C

## **Ambient data**

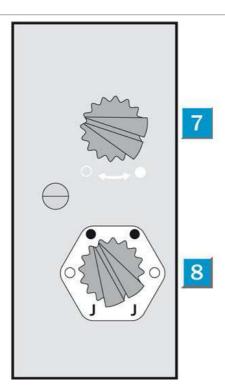
Operation: 0 ... +50 °C, Storage: -25 ... +75 °C Ambient temperature:

Shock load: According to IEC 60068

#### **Dimensional drawing**

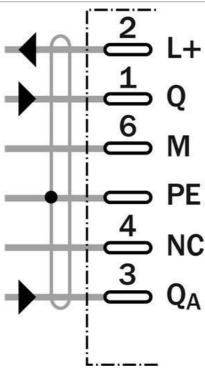


## Adjustments

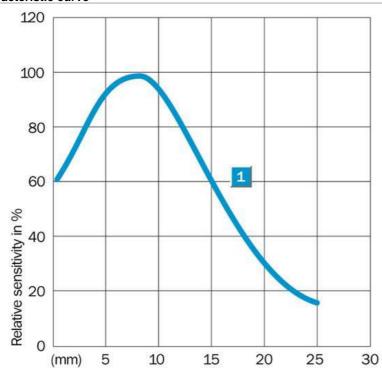


# Connection type





## Characteristic curve



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