

NT6-08022







# Contrast sensors NT6, NT6

Model Name > NT6-08022 Part No. > 1005830





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:

Sensing distance tolerance:

± 2 mm

Light source

LED rec

Light source '':

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, 15 ms (± 5 %)

1) Average service life of 10,000 h at  $T_A = +25 \, ^{\circ}\text{C}^{-2}$  In relation to long side of housing

### Mechanics/electronics

DC 10 V ... 30 V Supply voltage Vs: Ripple: ≤5 Vpp Current consumption 1): < 80 mA Switching frequency 2): 10 kHz Response time 3):

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

Analog output QA: 0.15 V ... 6 V

2 m cable , 4 x 0.34 mm, shielded, PVC, diameter 6 mm  $^{4)}$ Connection type: Output Q short-circuit protected. Interference suppression, VS Circuit protection:

> 50 µs

connections reverse-polarity protected

IP 67 Enclosure rating:

Weight: Approx. 540 g (with cable)

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

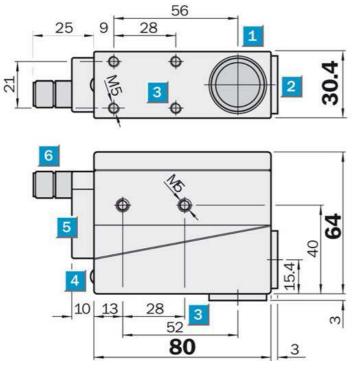
1) Without load 2) With light/dark ratio 1:1 3) Signal transit time with resistive load 4) Do not bend below 0 °C

### **Ambient data**

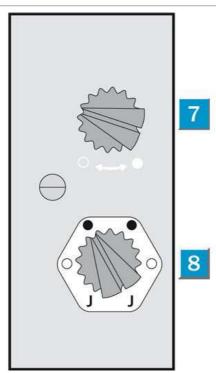
Operation: 0 ... +50 °C, Storage: -25 ... +75 °C Ambient temperature:

Shock load: According to IEC 60068

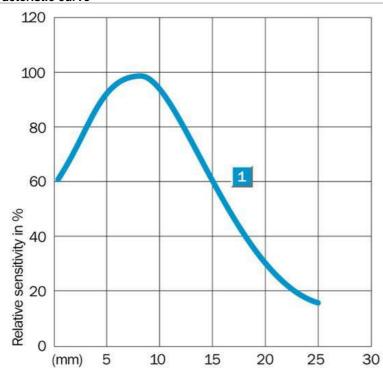
## **Dimensional drawing**



## Adjustments



# Characteristic curve



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