



1) Display and control panel 2) 270° rotatable 3) Cover cap, removable 4) Standard lens, removable 5) Light exit standard 6) Light exit optionally

- Contrast sensor
- Series 67M
- Blue/green/red light
- up to 50 mm



LISTED IND. CONT. EQ. 1TD4  
for use in the secondary of  
a class 2 source of supply

**General attributes**

Additional features

Adjuster

Approvals / Conformity

Basic standard

Duration of time function

Enclosure Type per IEC 60529

Indicator

Input function

Polarity reversal protected

Protection Class

Series

Setting

Short circuit protected

Time function

**Electrical attributes**

Analog output

Internet  
Balluff Germany  
Balluff USA  
Balluff China

Optical can be rotated (light exit 0°/90°),  
horizontal light spot.

Key (3x)

CE

cULus

IEC 60947-5-2

20 ms

IP67

Error - LED GN, flash.

Short circuit - LED GN, flash.

Switching point - bar display

Output function - LED YE

Ready - LED GN

Time function active - LED OG

Keys active - LED OG

PNP/NPN - LED OG, flash.

Same function as SET-key

Yes

II

Series 67M

Contrast (switching point)

Switching output PNP/NPN

Factory setting (Reset)

Light-on/dark-on

Time function on/off

Teach-in stat./man.

Key lock off

Yes

Turn-off delay

Analog U

www.balluff.com  
+49 (0) 7158 173-0, 173-370  
1-800-543-8390  
+86 (0) 21-50 644131

**Connection type**

Eff. operating current I<sub>e</sub>

Eff. operating voltage U<sub>e</sub> DC

Electrical version

Load res. R<sub>L</sub> min. (analog U)

No-load current max. I<sub>o</sub> at U<sub>e</sub>

Operating voltage U<sub>B</sub> max. DC [V]

Operating voltage U<sub>B</sub> min. DC [V]

Rated insulation voltage U<sub>i</sub>

Ripple max. (% of U<sub>e</sub>)

Switching freq. f max. (at U<sub>e</sub>)

Switching function

Switching output

Turn on time t<sub>on</sub> max.

Value range analog

Voltage drop U<sub>d</sub> max. (at I<sub>e</sub>)

**Mechanical attributes**

Ambient temperature T<sub>a</sub> max.

Ambient temperature T<sub>a</sub> min.

Connector type

Housing material

Length 1

Length 2

Length 3

Mounting type

Sensing face material

Style

Surface protection

**Optical attributes**

LED group acc. IEC 62471

Light spot size, typical

For definitions of terms, see main catalog  
Subject to change

**Connector**

100 mA

24 V DC

DC, direct current

2.2 kOhm

85 mA

30 V

10 V

75 V DC

8 %

20000 Hz

NO/NC

PNP/NPN (1x)

0.025 ms

1...5.5 V

2.0 V

55 °C

-10 °C

M12x1-S92

GD-Al

32.0 mm

82.0 mm

64.0 mm

Screw M5

Glass

Block, rotatable connection

Painted

Exempt group

5 mm x 1.5 mm at 9 mm

BKT0004\_157108\_22/07/15

Contrast sensor

**BKT 67M-004-U-S92**  
**BKT0004**

Light type

Principle of optical operation

Sensing distance  $S_n$

Sensing range

Switching function, optical

Wavelength

Blue/green/red light

Light scanner, focused

$S_n = 9 \pm 3$  mm

6...12 mm

Light-on/dark-on

465 nm / 520 nm / 630 nm

**Additional text**

Do not press key using a pointed tool.

Order accessories separately.

For additional information, refer to user's guide.

The sensor is functional again after the overload has been eliminated.

Reference object (target): Gray card, 100 x 100, 90 % remission, axial approach.

Reference object (target): Color bar card, 100 x 100, contrast yellow/white and blue/black, lateral approach of color bars, direction of movement vertical to color spot length.

