



1) Light reception 2) Stability 3) Sn, Light-on/Dark-on 4) Optical axis receiver 5) Optical axis emitter

- Photoelectric sensor
- Series 6K
- LED, red light
- up to 500 mm



LISTED IND. CONT. EQ. 77HA
for use in the secondary of
a class 2 source of supply

General attributes

Adjuster
Approvals / Conformity

Basic standard
Enclosure Type per IEC 60529
Indicator

Input function

Polarity reversal protected
Protection Class
Series
Setting

Short circuit protected

Electrical attributes

Connection type
Eff. operating current I_e
Eff. operating voltage U_e DC
Electrical version
No-load current max. I_o at U_e
Operating voltage U_B max. DC [V]
Operating voltage U_B min. DC [V]
Switching freq. f max. (at U_e)
Switching function
Switching output
Turn on time t_{on} max.
Voltage drop U_d max. (at I_e)

Key (1x)
cULus
CE
IEC 60947-5-2
IP67
Stability - LED GN
Light receipt - LED YE
Key disable on/off
Same function as key
yes
II
Series 6K
Light-on/dark-on
Factory setting (Reset)
Switching distance (Sn)
yes

Connector
100 mA
24.0 V
DC, direct current
25 mA
30.0 V
10.0 V
1000 Hz
NO/NC
PNP (1x)
0.50 ms
2.4 V

Mechanical attributes

Ambient temperature T_a max.
Ambient temperature T_a min.
Connector type
Detection range S_d
Eff. operating distance S_r
Housing material
Length 1
Length 2
Length 3
Minimum operating distance
Mounting type
Range S_n
Sensing face material
Style

60 °C
-20 °C
M8x1-S75
20...300 mm
300 mm
ABS
12.0 mm
21.0 mm
32.5 mm
20 mm
Screw M3
S_n = 300 mm, adjustable
PMMA
Block, 90° connection

Optical attributes

Light spot size, typical
Light type
Principle of optical operation
Switching function, optical
Wavelength

12 mm x 12 mm at 160 mm
LED, red light
Light scanner, energetic
NO/NC: light-on/dark-on
660 nm

Additional text

Do not press key using a pointed tool.
Order accessories separately.
The sensor is functional again after the overload has been eliminated.
Reference object (target): Gray card, 100 x 100

90 % remission, axial approach.
For additional information, refer to user's guide.
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).
Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

Photoelectric sensor

BOS 6K-PU-10C-S75-C

Order code: BOS00A9

BALLUFF

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