

1) Optical axis, 2) Output function, 3) stability/error, 4) Sn



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



Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Contrast sensor
Series	18KF
Style	Flat cylinder Straight optics

Display/Operation

Adjuster	button
Display	Output function- LED yellow Error - LED red+green, alt. Stability - LED green
Setting	Teach-in mode normal/fine Light-on/dark-on Contrast (switching point)

Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current I_o max. at U_e	25 mA
Operating voltage U_b	10...30 VDC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	8 %
Switching frequency	5000 Hz
Turn-off delay t_{off} max.	0.1 ms
Turn-on delay t_{on} max.	0.1 ms
Voltage drop U_d max. at I_e	2 V

Photoelectric Sensors
BKT 18KF-001-P-S4
 Order Code: BKT000H



Environmental conditions

Ambient temperature	-25...70 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP67

Functional safety

MTTF (40 °C)	426 a
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Material

Housing material	PBT
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 18 x 81.5 mm
Mounting	Nut M18x1 Screw M3
Tightening torque max.	1.5 Nm

Remarks

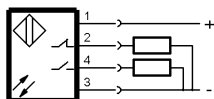
The sensor is functional again after the overload has been eliminated.
 Reference object (target): Color bar card, 100 x 100, contrast yellow/white and blue/black, lateral approach of color bars.
 For additional information, refer to user's guide.
 Order accessories separately.
 Do not press key using a pointed tool.
 For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



Opto Symbols

