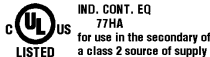


1) Optical axis 2) Output function 3) Error 4) stability 5) Sn



Display/Operation

Adjuster	18-turn potentiometer
Display	Output function- LED yellow Error - LED red Stability - LED green
Setting	Sensitivity (Sn)

Electrical connection

Connection	Connector, M12x1-Male, 4-pole
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
No-load current I _o max. at Ue	15 mA
Operating voltage U _b	10...30 VDC
Polarity reversal protected	yes
Protection class	II
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	10 ms
Residual current I _r max.	50 µA
Residual ripple max. (% of U _e)	15 %
Switching frequency	6000 Hz
Turn-off delay t _{off} max.	0.08 ms
Turn-on delay t _{on} max.	0.08 ms
Utilization category	DC -13
Voltage drop U _d max. at I _e	2.5 V

Environmental conditions

Ambient temperature	-10...50 °C
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Internet	www.balluff.com
Balluff Germany	+49 (0) 7158 173-0, 173-370
Balluff USA	1-800-543-8390
Balluff China	+86 (0) 21-50 644131

Contamination scale	3
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
IP rating	IP65

Functional safety

MTTF (40 °C)	15 a
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General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric Sensor
Reference emitter	BLS 18M-XX-1LT-..
Series	18M
Style	Cylinder Straight optics

Material

Housing material	Brass
Material sensing surface	Glass
Surface protection	nickel plates

Mechanical data

Dimension	Ø 18 x 86 mm
Fastening detail	Nut M18x1

Optical data

Ambient light max.	2000 Lux
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Photoelectric Sensors
BLE 18M-BA-1LT-S4-C
 Ordercode: BOS0074

Light type	Laser red light
Principle of optical operation	Through-beam sensor (receiver)
Smallest part typ.	30 µm at focal point, R0 = 20... 80 cm
Switching function optical	Dark-on Light-on

Rated operating distance Sn	50 m, Adjustable
Temperature drift max. (% of Sr)	10 %

Remarks

Order accessories separately.
 For additional information, refer to user's guide.
 The sensor is functional again after the overload has been eliminated.
 Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.
 Actuation object (target): gray card, 200 x 200, lateral approach
 For further information about the 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.

Output/Interface

Switching output	PNP Normally closed (NC) PNP Normally open (NO) Pins 4-2
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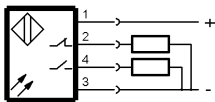
Range/Distance

Range	0...50 m
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Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

