

1) Pulse extender, 2) LED Power indicator, 3) Switching function, 4) Object resolution, 5) LED warning indicator, 6) LED function indicator, 7) Optical axis



Basic features

Additional features

Static switching output with automatic readjustment of the switching threshold
Contamination compensation up to 60% intensity loss and reduced object resolution depending on degree of contamination.

Approval/Conformity

CE
UKCA
WEEE

Basic standard

IEC 60947-5-2

Principle of operation

Optical window sensor

Series

B

Style

Frame

Display/Operation

Adjuster

Potentiometer 270° (3x)

Display

Output function- LED yellow
LED green: Power
Error - LED red

Setting

Pulse extension (On/Off)
Object resolution (3 levels)
Light-on/dark-on

Electrical connection

Connection

Connector, M8x1-Male, 4-pin

Contact, surface protection

Gold plated

Polarity reversal protected

yes

Short-circuit protection

yes

Photoelectric Sensors
BOW B-2424-DU-C-S75
Order Code: BOW003N

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Electrical data

No-load current Io max. at Ue	180 mA
Operating voltage Ub	15...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 ms
Residual current Ir max.	50 μ A
Ripple max. (% of Ue)	15 %
Switching frequency	667 Hz
Turn-off delay $toff$ max.	0.75 ms
Turn-on delay ton max.	0.75 ms
Voltage drop Ud max. at le	3.5 V

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP65

Interface

Duration of time function	$T = 50$ ms
Switching output	NPN static normally open/ normally closed (NO/NC) PNP static normally open/ normally closed (NO/NC)
Time function	switch-off delay

Remarks

Order accessories separately.
For additional information, refer to user's guide.
Do not route connection cable parallel to high voltage lines.
Reference object (target): Steel ball, diameter 4.0 mm, lateral approach.
The sensor is functional again after the overload has been eliminated.

Material

Housing material	Aluminium, anodized, black
Material sensing surface	PMMA
Surface protection	anodized, black

Mechanical data

Active window (PL x AL)	240 x 240 mm
Dimension	15 x 290 x 294 mm
Mounting part	Screw M6

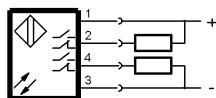
Optical features

Ambient light max.	2000 Lux
Beam characteristic	Divergent
Light type	infrared pulsed
Principle of optical operation	Through-beam sensor
Smallest part typ.	4.0 mm (resolution "High")
Switching function, optical	dark-on/light-on

Connector Drawings



Wiring Diagrams



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Opto Symbols

