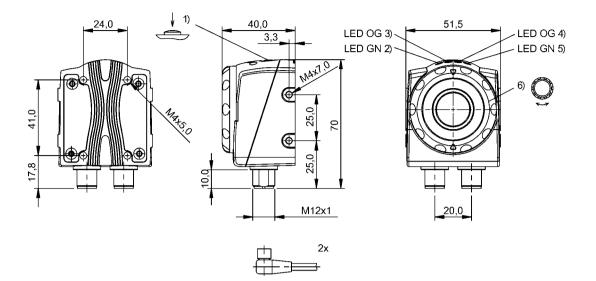
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- 1) Teach-in reference image
- 2) Operating voltage
- 3) Output 1 active
- 4) Output 2 active
- 5) Connection with PC
- 6) Focus





Basic features

Additional features	Detection of the angular position
Application	360° detection
Approval/Conformity	cULus
	CE
	EAC
	WEEE
Frame rate	340 Hz
Image resolution	640 x 480 pixels
Pixel size	6.0 x 6.0 μm
Sensor type Vision	CMOS image sensor black-white
Style	Square
	Connection 90°

Display/Operation

Adjuster

Setting

Adjusting ring button Teach-in reference image Image sharpness

Electrical connection

Connection 1	M12x1-Male, 8-pin, A-coded
Connection 2	M12x1-Male, 4-pin, D-coded
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Program select	
	Trigger	
Line-induced noise	3A	
No-load current lo max. at Ue	200 mA	
Operating voltage Ub	2226 VDC	
Rated operating current le	100 mA	
Rated operating voltage Ue DC	24 V	
Ready delay tv max.	10 ms	
Voltage drop Ud max. at le	1.8 V	

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BALLUFF

Environmental condition	S	Material	
Ambient temperature EN 60068-2-27, Shock	-1055 °C Half-sinus, 30 g _n , 11 ms, 3x6	Housing material	Aluminum, Die casting, Painted ABS
	Half-sinus, 100 g _n , 2 ms, 3x8000	Housing material, surface protection	Painted
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min	Material sensing surface	PMMA
	102000 Hz, amplitude 1 mm, 30 g _n , 3x5 h	Surface protection	Painted
IP rating	IP54	Mechanical data	
Functional Characteristic	S	Dimension	51.5 x 70 x 40 mm
Features per inspection, number max.	255	Mounting	Screw M4
Field of view max.	320 x 240 mm	Output/Interface	
Field of view min.	16 x 12 mm	Duration of time function	Impulse 11000 ms or infinite
Focal length	12.0 mm	Interface	Ethernet 10/100 Base T
Inspections, number max.	20	Supplementary output	Trigger output PNP
LED group per IEC 62471	Exempt Group	Switching output	3x PNP normally open (NO)
Light type	LED, red light	Time function	On/off delay
MTTF (40 °C)	127 a		Single pulse
Special optical feature	Incident light, can be disabled		
Wave length	630 nm	Range/Distance	
		Operating Distance	501000 mm

Remarks

Do not press key using a pointed tool.

Detection rate is dependent on the evaluation function.

Do not use sensor where object is exposed to strong ambient light.

Use of external illumination recommended for working distances greater than 300 mm .

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff.

Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.

For additional information, refer to user's guide.

Order accessories separately.

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.



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Wiring Diagrams

