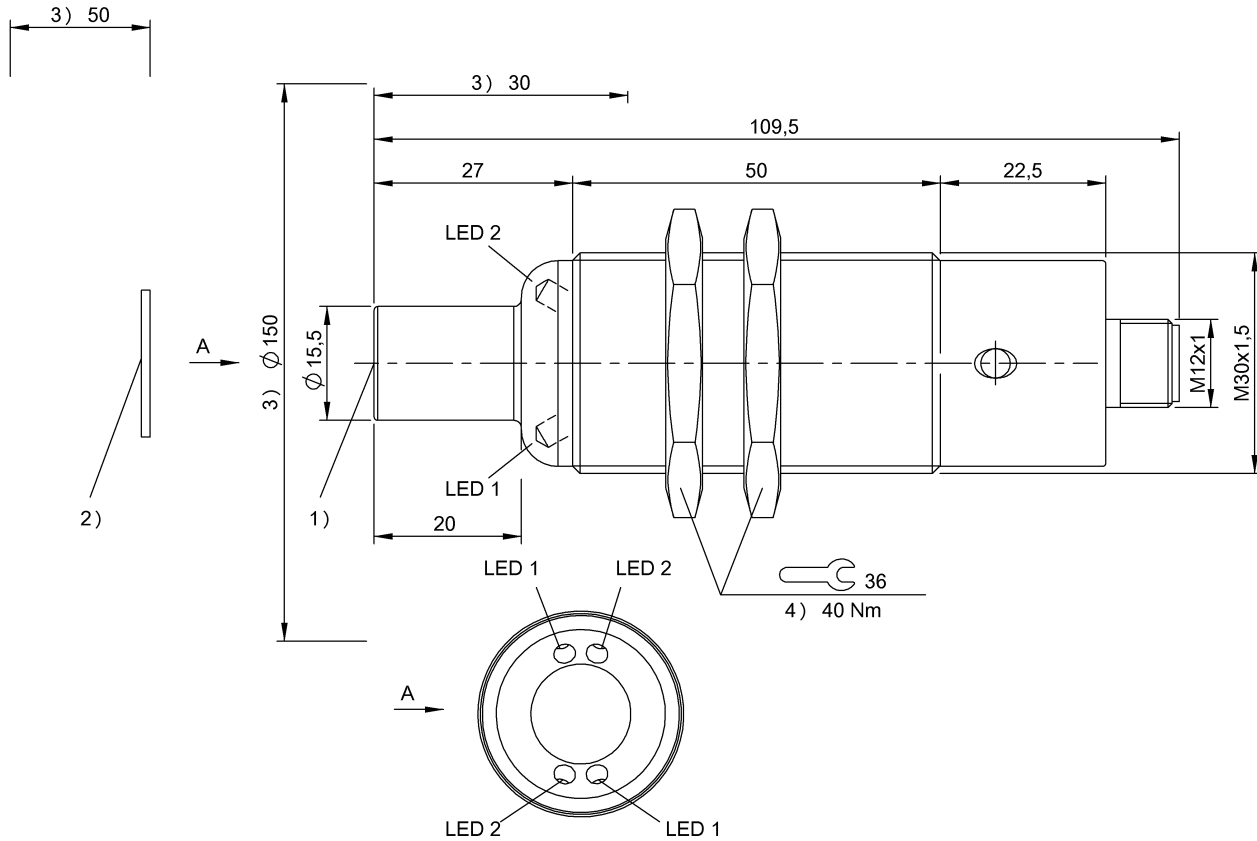


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1) Sensing surface 2) Data carrier 3) Clear zone 4) Tightening torque



Electrical connection

Connection M12x1-Connector, 4-pole, A-coded

Electrical data

Current consumption max. at 24 V DC 150 mA
EN 300330-1 Power Class 5
Operating voltage U_b 18...30 VDC Supports only LPS/Class 2

Environmental conditions

Ambient temperature 0...70 °C
EN 60068-2-27, Continuous shock load yes
EN 60068-2-27, Shock yes
EN 60068-2-6, Vibration yes
Protection type IEC 60529 IP67
Storage temperature -20...85 °C

Functional safety

EN 60068-2-32 Free fall yes

General data

Antenna type round
Approval/Conformity CE
EN 55022 UL-FILE E227256, Vol.X1, BIS
Size 1, Cl. A

Material

Housing material Brass, Nickel-plated brass nuts
Housing material, surface protection nickel plates

Mechanical data

Application weight 100.00 g
Dimension \varnothing 30 x 109.5 mm
Installation with clear zone (in steel)
Size M30x1.5

Output/Interface

Interface IO-Link

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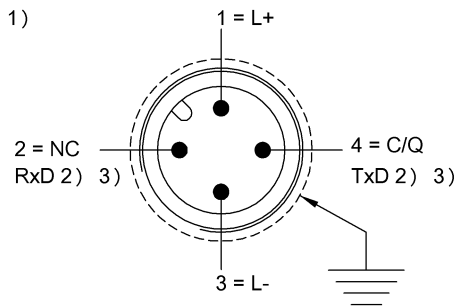
Range/Distance

Residual ripple max. 1.3 Vpp

Remarks

For basic equipment see IO-Link catalog.
When installing, the technical standards and regulations of the corresponding countries must be observed.
Use included nuts for installation.
Values are under rated conditions unless otherwise specified.
Order accessories separately.
For installation in metal: Observe clear zone.

Connector view



1) View towards connector 2) Service 3) (Only for Balluff Service)

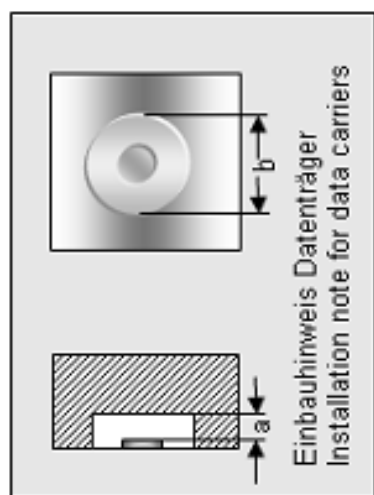
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Additional View

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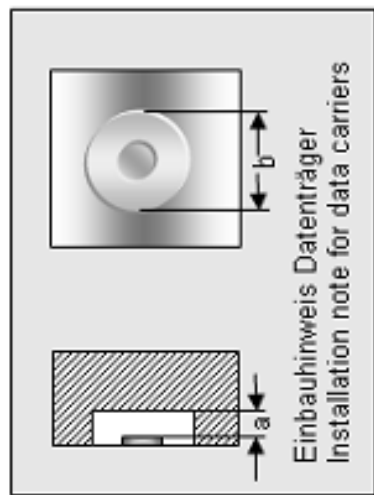
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passende Datenträger Appropriate data carriers	BIS M-101-01/L	BIS M-102-01/L	BIS M-105-01/A	BIS M-105-02/A	BIS M 122-01/A
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25 >10 >5	>50 >25 >10	>10 >0	>10 >0	>10 >0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>60 >50 >50	>60 >50 >50	>60 >0	>60 >0	>60 >0
Schreibabstand in mm Write distance in mm	0-15 0-12 0-9	0-18 0-18 0-10	0-6 0-5	0-9 0-5	0-5 0-4
Leseabstand in mm Read distance in mm	0-15 0-12 0-9	0-18 0-18 0-10	0-6 0-5	0-9 0-5	0-5 0-4
Versatz in mm bei Abstand von	0 ±9 ±6 ±4 5 ±9 ±6 ±4 9 ±8 ±4 ±2 12 ±6 ±2 15 ±4 16 ±7 ±3 18 ±6 ±2 20 22 25 30 32 35 40 43 45 50 52 60 65 70	0-18 0-18 0-10 ±16 ±12 ±4 ±16 ±12 ±4 ±12 ±10 ±2 ±8 ±5 ±8 ±5 ±7 ±3 ±6 ±2	±5 ±4 ±4 ±2	±6 ±4 ±6 ±2 ±2	±4 ±3 ±3
Offset in mm at distance					



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	BIS M-122-02/A	BIS M-108-02/L	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>10 >0	>25 >0	>25 >15 >5	>25 >10 >5	>50 >25 >20
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>60 >0	>60 >0	>80 >50 >50	>80 >50 >50	>150 >90 >70
Schreibabstand in mm Write distance in mm	0-6 0-5	0-20 0-12	0-15 0-10 0-6	0-20 0-12 0-5	0-28 0-18 0-10
Leseabstand in mm Read distance in mm	0-6 0-5	0-20 0-12	0-15 0-10 0-6	0-20 0-12 0-5	0-28 0-18 0-10
Versatz in mm bei Abstand von	0 ±4 ±3	0-20 ±14 ±10	0-15 ±8 ±6 ±4	0-20 ±12 ±8 ±7	0-28 ±20 ±14 ±14
Offset in mm at distance	5 ±3 ±2	±14 ±8 ±6	±8 ±6 ±5	±12 ±8 ±6	±20 ±14 ±14
	9	±12 ±6 ±4	±6 ±5	±10 ±6	±18 ±14 ±10
	12	±10 ±4	±4	±10 ±4	±18 ±12 ±6
	15	±10	±4	±10	±18 ±12
	16	±7		±7	±16 ±10
	18	±7		±7	±16 ±8
	20	±7		±7	±16
	22				±12
	25				±12
	30				
	32				
	35				
	40				
	43				
	45				
	50				
	52				
	60				
	65				
	70				



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