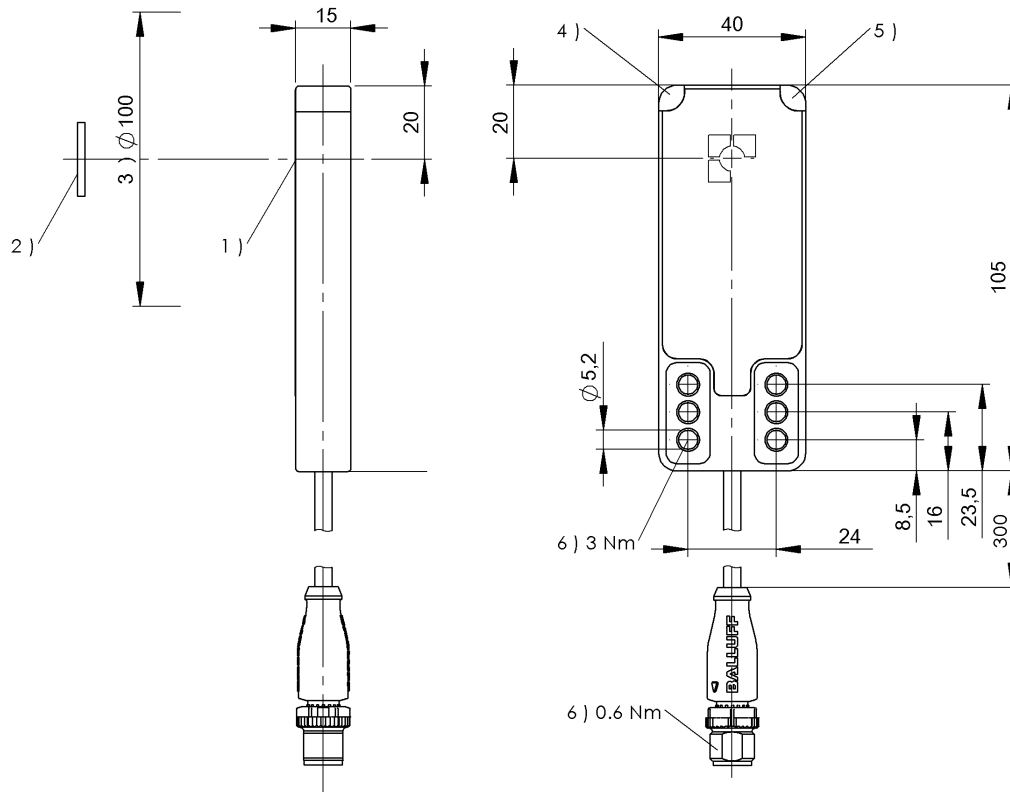


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1) Sensing surface 2) Data carrier 3) Clear zone 4) LED (Power) 5) LED (CP) 6) Tightening torque



## Display/Operation

Function indicator	CP (Code tag present), LED yellow Power (ON), LED green Operating, LED green flashing
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## Electrical connection

Connection	Connector, 4-pole
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## 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
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## Functional safety

EN 60068-2-32 Free fall	yes
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## General data

Antenna type	round
Approval/Conformity	CE

## Material

Housing material	Zinc, Die casting
Housing material, surface protection	nickel plates

## Mechanical data

Application weight	360.00 g
Dimension	40 x 15 x 105 mm
Installation	with clear zone (in steel)

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## Output/Interface

Interface	IO-Link 1.1
IO-Link version	1.1

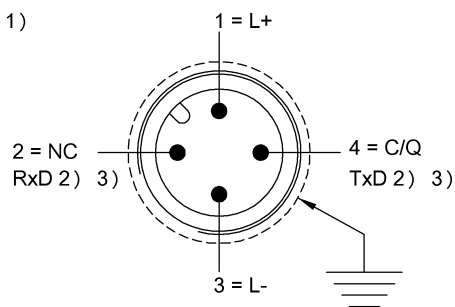
## Remarks

For basic equipment: Accessories see [www.balluff.com](http://www.balluff.com)  
Values are under rated conditions unless otherwise specified.  
For installation in metal: Observe clear zone.

## Range/Distance

Residual ripple max.	1.3 Vpp
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## Connector view



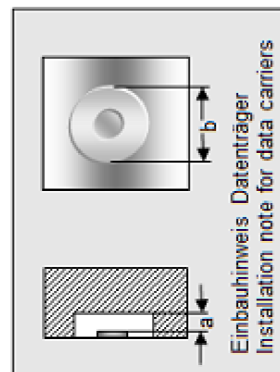
1) View towards connector 2) Service 3) (Only for Balluff Service)

## Additional View

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## BIS M-408-045-001-

	BIS M-105-02/A	BIS M-122-02/A	BIS M-110-02/L	BIS M-111-02/L	BIS M-128-03/L
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( <b>a</b> ) Data carrier distance to metal in mm	>10 >0	>10 >0	>25	>25	>25
Freizone Datenträger in mm ( <b>b</b> ) Data carrier clear zone in mm	>60 >60	>60 >60	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-13 0-11	0-11 0-9	0-23	0-28	0-26
Leseabstand in mm Read distance in mm	0-13 0-11	0-11 0-9	0-23	0-28	0-26
Versatz in mm bei Abstand von	±10 ±8	±8 ±8	±15	±16	±15
	4 ±10 ±8	±8 ±8	±15	±16	±15
	5 ±10 ±8	±8 ±7	±15	±16	±15
	6 ±9 ±7	±7 ±7	±15	±16	±15
	7 ±9 ±7	±7 ±6	±15	±16	±15
	8 ±9 ±7	±7 ±6	±15	±16	±15
	9 ±9 ±7	±7 ±3	±15	±16	±15
	10 ±7 ±4	±4	±15	±16	±15
	11 ±7 ±4	±4	±12	±15	±13
	13 ±4		±12	±15	±13
	15		±12	±15	±13
	20		±12	±15	±13
	23		±5	±10	±5
	25			±10	±5
	26			±5	±5
	28			±5	
	35				
	40				
	45				
	50				
	55				



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## BIS M-408-045-001-

	BIS M-140-02/A- xx	BIS M-142-02/A- xx	BIS M-143-02/A- xx	BIS M-144-02/A- xx	
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( <b>a</b> ) Data carrier distance to metal in mm	>0	>0	>0	>0	
Freizone Datenträger in mm ( <b>b</b> ) Data carrier clear zone in mm	>100	>100	>100	>100	
Schreibabstand in mm Write distance in mm	0-22	0-22	0-13	0-22	
Leseabstand in mm Read distance in mm	0-22	0-22	0-13	0-22	
Versatz in mm bei Abstand von	±13	±13	±10	±13	
	±13	±13	±10	±13	
	±13	±13	±9	±13	
	±11	±11	±5	±11	
	±11	±11		±11	
	±11	±11		±11	
	±7	±7		±7	
	±7	±7		±7	
	25				
	28				
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	65				
	70				

