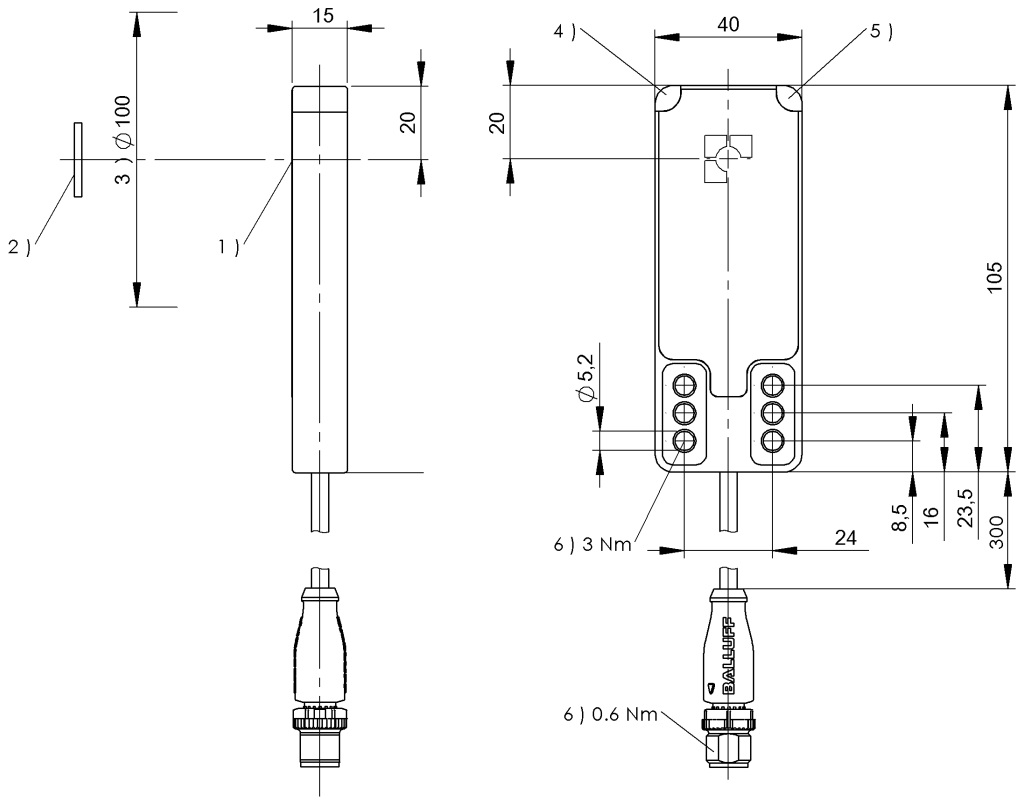
HF (13.56 MHz)

BIS M-408-045-001-07-S4
Order Code: BIS014J



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

Basic features

Antenna type	round
Approval/Conformity	CE FCC Part 15 IC RSS-210 WEEE

Display/Operation

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

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded

Electrical data

Current consumption max. at 24 V DC	150 mA
EN 300330-1	Power Class 5
Operating voltage Ub	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 Vpp

Environmental conditions

Ambient temperature	0...70 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
Protection degree	IP67
Storage temperature	-20...85 °C

HF (13.56 MHz)

BIS M-408-045-001-07-S4
Order Code: BIS014J

Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693

Material

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

Mechanical data

Application weight	360.00 g
Dimension	40 x 15 x 105 mm
Installation	metal-free (clear zone)

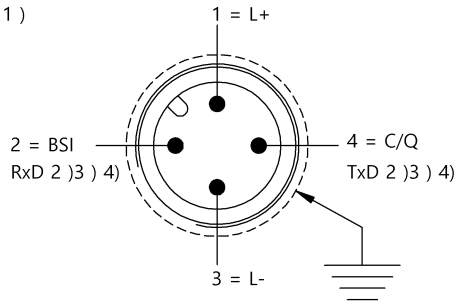
Output/Interface

IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	10 bytes

Remarks

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

Connector Drawings



1) View towards connector
2) BSI service interface
3) Do not connect power
4) (Only for Balluff Service)

Help Views

BIS M-408-045-001-07-S4
Order Code: BIS014J

BALLUFF

BIS M-408-045-001-

passende Datenträger Appropriate data carriers	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
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>10	>0	>10	>0	>25	>25	>25
Freizone Datenträger in mm (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 Offset in mm at distance							
0	±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							

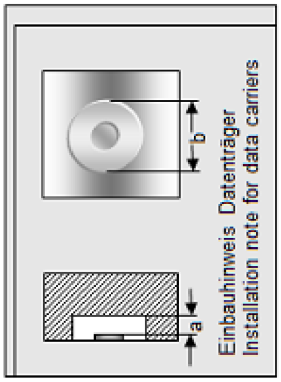
Einbauhinweis Datenträger
Installation note for data carriers

BIS M-408-045-001-07-S4
Order Code: BIS014J

BALLUFF

BIS M-408-045-001-

passende Datenträger Appropriate data carriers	BIS M-140-02/A- xx	BIS M-142-02/A- xx	BIS M-143-02/A- xx	BIS M-144-02/A- xx	
Abstand Datenträger zu Metall in mm (**a**) Data carrier distance to metal in mm	≥0	≥0	≥0	≥0	
Freizone Datenträger in mm (**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	0 ±13 5 ±13 10 ±13	±13 ±13 ±13	±10 ±10 ±9	±13 ±13 ±13	
Offset in mm at distance	13 ±11 15 ±11 18 ±11 20 ±7 22 ±7	±11 ±11 ±11 ±7 ±7	±5	±11 ±11 ±11 ±7 ±7	
	25 28 30 32 35 40 43 45 50 52 60 65 70				



Einbauhinweis Datenträger
Installation note for data carriers