

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



Basic features

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

Display/Operation

Function indicator	Power (ON) Green LED TP (Tag Present) LED yellow
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Electrical connection

Connection	Male, 8-pin
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Electrical data

EN 300330-1	Power Class 5
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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

Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693
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Functional safety

MTTF (40 °C)	242 a
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HF (13.56 MHz)
BIS M-300-001-S115
Order Code: BIS0053

BALLUFF

Material

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

Mechanical data

Application weight	100.00 g
Dimension	Ø 30 x 83 mm
Installation	metal-free (clear zone)
Size	M30x1.5

Remarks

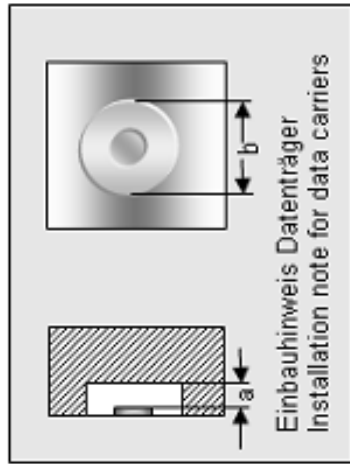
For installation in metal: Observe clear zone.
Values are under rated conditions unless otherwise specified.
Use included nuts for installation.
Only together with BIS M-6xxx
For basic equipment: Accessories see www.balluff.com
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Help Views

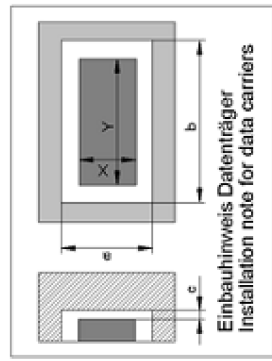
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	BIS M-101-01/L	BIS M-102-01/I	BIS M-105-01/A	BIS M-105-02/A	BIS M-108-02/L
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25 >10 >5	>50 >15 >10	>20 >5	>20 >5	>25 >0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >60 >50	>150 >90 >70	>100 >100	>100 >100	>100 >0
Schreibabstand in mm Write distance in mm	0-22 0-20 0-15	0-32 0-22 0-12	0-9 0-9	0-11 0-11	0-30 0-16
Leseabstand in mm Read distance in mm	0-22 0-20 0-15	0-32 0-22 0-12	0-9 0-9	0-11 0-11	0-30 0-16
Versatz in mm bei Abstand von	0 ±15 ±12 ±8	0-22 ±15 ±6	±7 ±6	±10 ±7	±18 ±10
Offset in mm at distance	5 ±15 ±12 ±8 9 ±15 ±10 ±6 12 ±15 ±8 ±4 15 ±15 ±8 ±4 16 ±12 ±6 18 ±12 ±6 20 ±12 ±4 22 ±4 25 30 32 35 40 43 45 50 52 60 65 70	±20 ±15 ±6 ±20 ±15 ±6 ±20 ±15 ±5 ±20 ±15 ±4 ±20 ±10 ±20 ±8 ±20 ±6 ±18 ±4 ±14 ±10 ±4	±7 ±6 ±7 ±6 ±2 ±1	±8 ±7 ±5 ±3	±18 ±10 ±18 ±10 ±18 ±8 ±16 ±6 ±16 ±6 ±16 ±4 ±16 ±16 ±14 ±14 ±10



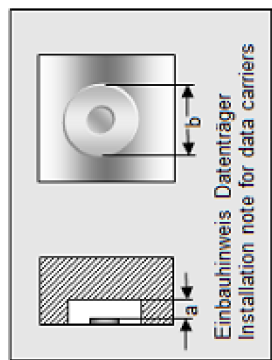
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	BIS M-115-03/A				
passende Datenträger Appropriate data carriers					
Freizone Datenträger in mm (a) Data carrier clear zone in mm	>100				
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>140				
Abstand Datenträger zu Metall in mm (c) Data carrier distance to metal in mm	>25				
Schreibabstand in mm Write distance in mm	0-18	0-18			
Leseabstand in mm Read distance in mm	0-18	0-18			
Versatz in mm bei Abstand von	X	Y			
	0 ±8 ±14				
	5 ±8 ±14				
	7 ±8 ±14				
	10 ±8 ±14				
	15 ±6 ±14				
	18 ±6 ±10				
	20				
	25				
	30				
	35				
	40				
	45				
Offset in mm at distance					



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	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L	BIS M-132-03/L-HT	BIS M-135-03/L-HT
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25 >10 >5	>25 >10 >5	>50 >15 >10	>25 >0	>50
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >60 >50	>100 >60 >50	>150 >90 >70	>100 >100	>150
Schreibabstand in mm Write distance in mm	0-22 0-16 0-10	0-28 0-18 0-10	0-44 0-25 0-15	0-30 0-8	0-42
Lesabstand in mm Read distance in mm	0-22 0-16 0-10	0-28 0-18 0-10	0-44 0-25 0-15	0-30 0-8	0-42
Versatz in mm bei Abstand von	0 ±14 ±8 ±7	0 ±16 ±10 ±7	0 ±25 ±18 ±15	0 ±18 ±8	0 ±30 ±30
Offset in mm at distance	5 ±14 ±8 ±2	8 ±14 ±8 ±2	±25 ±18 ±12	±18 ±6	±30 ±30
	10 ±12 ±6 ±2	12 ±14 ±8 ±2	±25 ±16 ±12	±18 ±3	±30 ±30
	12 ±12 ±5	14 ±14 ±7	±24 ±15 ±10		±28 ±28
	15 ±12 ±4	14 ±14 ±6	±24 ±14 ±8		±28 ±28
	16 ±10 ±2	14 ±14 ±3	±24 ±12		±28 ±28
	18 ±10	14 ±14 ±2	±24 ±12		±28 ±28
	20 ±10	14 ±14	±24 ±10		±28 ±28
	22 ±6	12 ±12	±22 ±8		±24 ±24
	25	12 ±12	±22 ±6		±24 ±24
	30		±22		±24 ±24
	32		±16		±24 ±24
	35		±16		±24 ±24
	40		±16		±5 ±5
	42		±10		
	44		±5		
	50				
	60				
	65				
	70				



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	BIS M-107-03/L- H200	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 (a) Data carrier distance to metal in mm	>25	>0	>0	>0	>0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-27	0-22	0-22	0-13	0-22
Leseabstand in mm Read distance in mm	0-27	0-22	0-22	0-13	0-22
Versatz in mm bei Abstand von	0 5 10 13 15 18 20	±16 ±16 ±16 ±14 ±14 ±14	±10 ±10 ±13 ±11 ±11 ±7	±10 ±10 ±13 ±9 ±5	±13 ±13 ±13 ±11 ±11 ±7
Offset in mm at distance	22 25 27 30 32 35 40 43 45 50 52 60 65 70	±12 ±12 ±5	±12 ±12	±7 ±7	±7 ±7

