

1) Sensing surface, 2) Clear zone, 3) Clear zone surrounding



**Basic features**

Antenna type	round
Approval/Conformity	CE WEEE

**Electrical connection**

Connection	RCA
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**Electrical data**

Antenna gain	-36.6 dBi
Antenna impedance	50 Ohm
EN 300330-1	Power Class 5
Working frequency	13.56 MHz

**Environmental conditions**

Ambient temperature	-20...50 °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	IP65
Storage temperature	-20...70 °C

**Functional Characteristics**

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

MTTF (40 °C)	2010 a
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**Material**

Housing material	PA
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HF (13.56 MHz)  
**BIS M-371-000-A01**  
Order Code: **BIS00WM**

**BALLUFF**

**Mechanical data**

**Application weight** 290.00 g

**Dimension**

113.4 x 42.4 x 118 mm

**Installation**

metal-free (clear zone)

**Remarks**

Values are under rated conditions unless otherwise specified.

Only together with BIS M-62x or BIS VM-920x.

When using BIS VM-920 (BIS014N) + connection cable (BIS00WJ): Maximum read/write distance reduced by 10%.

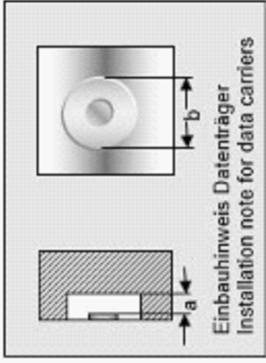
For more information about MTTF and B10d see MTTF / B10d Certificate

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**

**BIS M-371-000-A01**

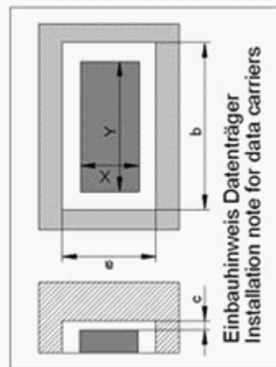
	BIS M-142-02/A- xx *	BIS M-142-20/A- xx *	BIS M-144-02/A- xx *
passende Datenträger Appropriate data carriers			
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>0	>0	>0
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>120	>120	>120
Schreibabstand in mm Write distance in mm	0-50	0-50	0-28
Leseabstand in mm Read distance in mm	0-50	0-50	0-28
Versatz in mm bei Abstand von Offset in mm at distance	0 ±30 5 ±30 15 ±30 28 ±30 35 ±30 50 ±20	±30 ±30 ±30 ±30 ±30 ±20	±20 ±20 ±20 ±15



\* nur in Verbindung mit BIS VM-920

## BIS M-371-000-A01

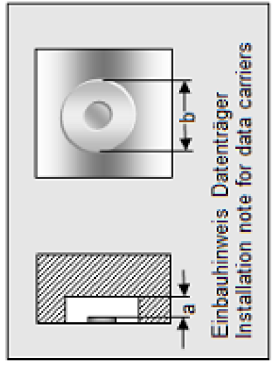
	BIS M-136-03/L	BIS M-115-03/A		
passende Datenträger				
Appropriate data carriers				
Freizone Datenträger in mm ( a )				
Data carrier clear zone in mm	>250	>230		
Freizone Datenträger in mm ( b )				
Data carrier clear zone in mm	>330	>270		
Abstand Datenträger zu Metall in mm ( c )	>40	>40		
Data carrier distance to metal in mm				
Schreibabstand in mm	15-210	0-85		
Write distance in mm				
Leseabstand in mm	15-210	0-85		
Read distance in mm				
Versatz in mm	X	Y	X	Y
bei Abstand von	25 ±75	±75	±40	±40
	50 ±75	±75	±40	±40
	70 ±75	±75	±40	±40
	85 ±75	±75	±25	±25
	100 ±75	±75		
	140 ±75	±75		
	175 ±75	±75		
	200 ±75	±75		
	210 ±25	±25		
Offset in mm				
at distance				



\* nur in Verbindung mit BIS VM-920

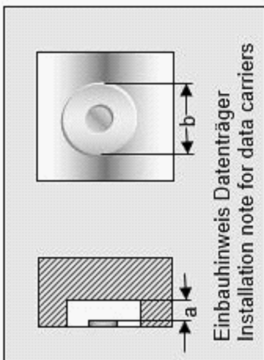
**BIS M-371-000-A01**

	BIS M-132-03/L	BIS M-132-03/L-HT	BIS M-132-10/L-HT	BIS M-133-02/A
passende Datenträger Appropriate data carriers				
Abstand Datenträger zu Metall in mm ( <i>a</i> ) Data carrier distance to metal in mm	>25	>25	>25	>40
Freizone Datenträger in mm ( <i>b</i> ) Data carrier clear zone in mm	>230	>230	>230	>230
Schreibabstand in mm Write distance in mm	0-100	0-100	0-40	0-70
Leseabstand in mm Read distance in mm	0-100	0-100	0-40	0-70
Versatz in mm bei Abstand von Offset in mm at distance	0 ±75 20 ±75 30 ±75 40 ±75 50 ±70 70 ±70 100 ±25	0-100 ±75 ±75 ±75 ±75 ±70 ±70 ±25	0-40 ±30 ±30 ±30 ±20	0-70 ±40 ±40 ±40 ±40 ±40 ±25



**BIS M-371-000-A01**

	BIS M-108-02/L <sup>*</sup>	BIS M-108-20/A <sup>*</sup>	BIS M-110-02/L <sup>*</sup>	BIS M-111-02/L <sup>*</sup>	BIS M-112-02/L <sup>*</sup>
passende Datenträger					
Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( a )					
Data carrier distance to metal in mm	>40	>40	>40	>40	>40
Freizone Datenträger in mm ( b )					
Data carrier clear zone in mm	>230	>230	>220	>230	>250
Schreibabstand in mm					
Write distance in mm	0-110	0-100	0-70	0-120	0-150
Leseabstand in mm					
Read distance in mm	0-110	0-100	0-70	0-120	0-150
Versatz in mm bei Abstand von	0 ±40	±40	±40	±40	±40
Offset in mm at distance	20 ±40	±40	±40	±40	±40
	40 ±40	±40	±40	±40	±40
	60 ±40	±40	±40	±40	±40
	70 ±40	±40	±25	±40	±40
	100 ±40	±25		±40	±40
	110 ±25			±40	±40
	120			±25	±40
	150				±25



<sup>\*</sup> nur in Verbindung mit BIS VM-920

## BIS M-371-000-A01

	BIS M-135-02/L	BIS M-135-03/L	BIS M-135-03/L- HT	BIS M-135-07/L- HT	
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>40	>40	>40	>40	
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>250	>250	>250	>250	
Schreibabstand in mm Write distance in mm	25-140	10-205	10-205	10-135	
Leseabstand in mm Read distance in mm	25-140	10-205	10-205	10-135	
Versatz in mm bei Abstand von	50 ±75	10-205 ±75	10-205 ±75	10-135 ±75	
	75 ±75	±75	±75	±75	
	100 ±75	±75	±75	±75	
	120 ±75	±75	±75	±75	
	135 ±75	±75	±75	±25	
	140 ±25	±75	±75		
	190	±75	±75		
	205	±25	±25		
Offset in mm at distance					

