



1) Sensing surface, 2) Clear zone, 3) data valid, 4) Cable bending radius, 5) Tightening torque, 6) see remarks



Basic features

Antenna type	round
Approval/Conformity	CE WEEE EAC
EN 55011	Size 1, Cl. A
Principle of operation	Read/write device

Display/Operation

CT present/not present	LED on/off
Data check, error	LED flashes slowly
Short circuit on output	LED flashes rapidly

Electrical connection

Cable length L	0.5 m
Connection type	0.50 m, PU

Electrical data

Control input	3 (optocoupler isolated)
Control output	PNP 9
Control voltage active	17...27 V
Control voltage inactive	0...6 V
Current consumption max. at 24 V DC	300 mA
Input AD 0	BN/BK
Input AD 1	RD/BK
Input AD 2	OG/BK
Input AD-COM	YE/BK
Input current max. at 24 V	3 mA
Operating voltage U_b	19.2...26.4 VDC
Output bit 0	BN
Output bit 1	RD
Output bit 2	OG
Output bit 3	YE
Output bit 4	GN
Output bit 5	BU
Output bit 6	VT
Output bit 7	GY
Output data valid	BK
Shield	colorless

LF (70/455 kHz)
BIS C-60R-002-08P-PU-00,5-ST21
Order Code: BIS00H9

BALLUFF

Environmental conditions

Ambient temperature	0...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
IP rating	IP67

Functional safety

MTTF (40 °C)	27 a
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Interface

Interface	8x8 bits parallel
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Remarks

Values are under rated conditions unless otherwise specified.

When installing, the technical standards and regulations of the corresponding countries must be observed.

Use included nuts for installation.

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.

Material

Housing material	Brass, nickel plated
Housing material, surface protection	nickel-plated
Material jacket	PU

Mechanical data

Application weight	210.00 g
Dimension	Ø 30 x 95 mm
Installation	metal-free (clear zone)
Size	M30x1.5

Help Views

Appropriate data carriers	BIS C-121-04 flush	BIS C-121-04 BIS C-122-04 non-flush	BIS C-103-05 flush	BIS C-103-05 non-flush	BIS C-130-05 flush	BIS C-130-05 non-flush	BIS C-100-05 flush
Static mode							
Read distance in mm	0-3	1-5	0-4	1-5	0-5	1-8	0-5
Offset in mm	±2	±3	±4	±2.5	±3	±4	±2.5
at distance							
1 mm							
3 mm	±2	±3	±2.5	±2.5	±3	±5	±3
5 mm		±3		±2.5	±3	±5	±3
7 mm						±5	
Dynamic mode*							
Read distance in mm						4-8	
V _{max} to read 1 bytes in m/min						15	

Appropriate data carriers	BIS C-100-05 non-flush	BIS C-128-05 non-flush	BIS C-117/A flush	BIS C-117/L BIS C-108-05 non-flush	BIS C-104-11 flush non-flush	BIS C-108-05 flush
Static mode						
Read distance in mm	1-6	3-12	1-8	1-8	1-8	0-6
Offset in mm	±3		±5	±7	±4	±7
at distance						
1 mm						
3 mm	±3	±7	±5	±7	±4	±7
5 mm	±3	±6	±5	±7	±4	±6
7 mm		±5	±5	±6	±4	
Dynamic mode*						
Read distance in mm	4-6	4-8	6-8	3-8		
V _{max} to read 1 bytes in m/min	9	20	12	20		