HF (13.56 MHz)

BIS M-410-068-001-09-S72
Order Code: BIS00W4

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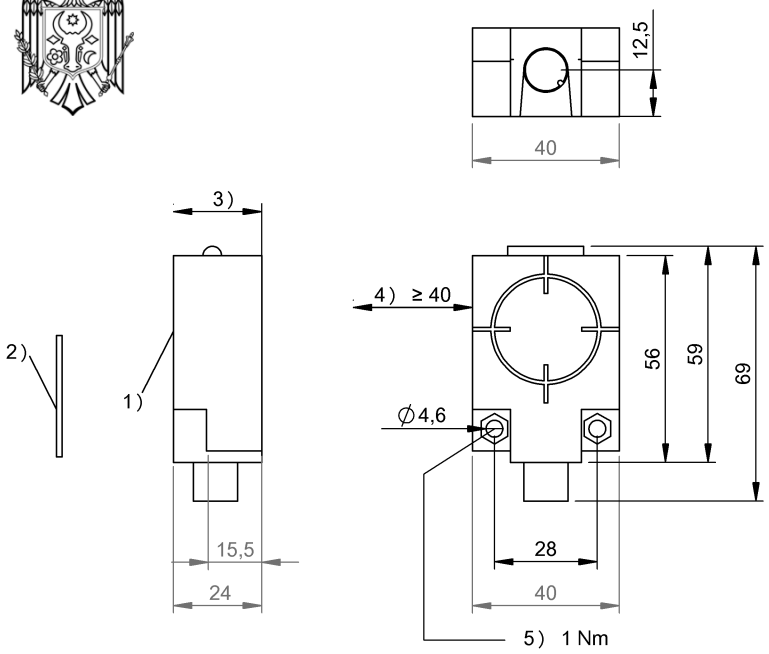

1) Sensing surface, 2) Data carrier, 3) Clear zone, 4) Clear zone surrounding, 5) Tightening torque

Basic features

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

Display/Operation

Function indicator	COM field, LED yellow RF field, LED red Power (ON), LED green

Electrical connection

Connection	USB: M12x1-Male, 5-pin

Electrical data

Current consumption max. at 5 V DC	500 mA
Nominal voltage	5 VDC
Operating voltage Ub	5 V DC
Residual ripple max.	included

Environmental conditions

Altitude max.	2000 m
Ambient temperature	-20...50 °C
Area of operation	Indoor
Contamination scale	2
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
Relative humidity	0...90 %, non-condensing
Storage temperature	-20...70 °C

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Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693

Interface

Interface	USB 2.0

Material

Housing material	PC, With PU potting

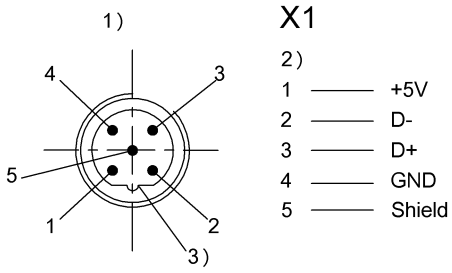
Mechanical data

Application weight	66.00 g
Dimension	40 x 24 x 56 mm
Installation	metal-free (clear zone)

Remarks

This device is intended to be supplied by a UL-listed or CSA-certified power supply unit with "Class 2" or LPS power source.
The devices must be installed permanently.
1. Determine a suitable mounting position.
2. Fasten the device with suitable mounting material.
The device can be cleaned with a slightly damp cloth.
Regularly check the function of the device and all associated components through visual and functional tests.
- Shut down the device in the event of malfunctions.
- Secure the system against unauthorized use.
- Check fastening and tighten if necessary.
The product is maintenance-free.

Connector Drawings



1) View towards connector
2) Male 5-pin/ Function
3) Coding B

Help Views

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BIS M-410-__

passende Datenträger Appropriate data carriers	BIS M-130-03/L	BIS M-130-07/L	BIS M-131-10/L	BIS M-132-03/L	BIS M-132-03/L-HT
Abstand Datenträger zu Metall in mm (**a**) Data carrier distance to metal in mm	>10	>10	>10	>25	>25
Freizone Datenträger in mm (**b**) Data carrier clear zone in mm	>60	>60	>60	>100	>100
Schreibabstand in mm Write distance in mm	0-17	0-12	0-5	0-48	0-40
Leseabstand in mm Read distance in mm	0-17	0-12	0-5	0-48	0-40
Versatz in mm bei Abstand von	0 ±15	±12	±10	±30	±25
	2 ±15	±12	±10	±30	±25
	4 ±15	±12	±7,5	±30	±25
Offset in mm at distance	5 ±15	±12	±5	±30	±25
	10 ±14	±10		±30	±25
	12 ±12	±5		±25	±20
	15 ±12			±25	±20
	17 ±7			±25	±20
	20			±25	±20
	25			±25	±20
	30			±25	±20
	35			±20	±12
	40			±20	±12
	45			±12	
	48			±12	
	75				
	80				
	85				
	90				
	95				
	100				

Einbauhinweis Datenträger
Installation note for data carriers

BIS M-410-__

passende Datenträger Appropriate data carriers	BIS M-132-10/L	BIS M-132-10/L-HT	BIS M-133-02/A	BIS M-134-10/L	BIS M-134-10/L-HT
Abstand Datenträger zu Metall in mm (**a**) Data carrier distance to metal in mm	>25	>25	>25	>50	>50
Freizone Datenträger in mm (**b**) Data carrier clear zone in mm	>100	>100	>100	>150	>150
Schreibabstand in mm Write distance in mm	0-15	0-15	0-32	0-32	0-36
Leseabstand in mm Read distance in mm	0-15	0-15	0-32	0-32	0-36
Versatz in mm bei Abstand von	0 ±15 5 ±15 10 ±12	±15 ±15 ±12	±20 ±20 ±20	±22 ±22 ±22	±25 ±25 ±25
Offset in mm at distance	15 ±8 20 25 30 32 36 40 45 50 55 60 65 68 75 80 85 90 95	±8	±16 ±16 ±10 ±10 ±8	±20 ±20 ±12 ±12 ±8	±25 ±25 ±20 ±20 ±12 ±12

Einbauhinweis Datenträger
Installation note for data carriers

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BIS M-410-__

passende Datenträger Appropriate data carriers	BIS M-135-02/L	BIS M-135-03/L	BIS M-135-03/L-HT	BIS M-135-07/L	BIS M-135-07/L-HT
Abstand Datenträger zu Metall in mm (**a**) Data carrier distance to metal in mm	>50	>50	>50	>50	>50
Freizone Datenträger in mm (**b**) Data carrier clear zone in mm	>150	>150	>150	>150	>150
Schreibabstand in mm Write distance in mm	0-60	0-68	0-70	23-46	23-46
Leseabstand in mm Read distance in mm	0-60	0-68	0-70	23-46	23-46
Versatz in mm bei Abstand von	0	±40	±44		
	5	±40	±44		
	10	±40	±44		
	15	±40	±44		
	20	±40	±44		
Offset in mm at distance	23	±32	±32	±24	±24
	30	±32	±32	±24	±24
	32	±32	±32	±18	±18
	35	±32	±32	±18	±18
	40	±32	±32	±18	±18
	46	±32	±32	±10	±10
	50	±32	±32		
	55	±24	±25		
	60	±24	±25		
	65	±15	±15		
	68	±15	±15		
	70		±15		
	80				
	85				
	90				
	95				

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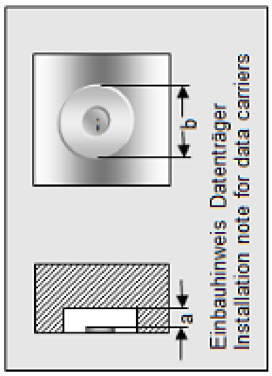
Installation note for data carriers

BIS M-410-__

passende Datenträger Appropriate data carriers	BIS M-108-02/L					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25					
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>120					
Schreibabstand in mm Write distance in mm	0-40					
Leseabstand in mm Read distance in mm	0-40					
Versatz in mm bei Abstand von	0	±22				
	5	±22				
	10	±22				
Offset in mm at distance	15	±22				
	20	±22				
	25	±20				
	30	±20				
	35	±20				
	40	±10				
	45					
	50					
	55					
	60					
	65					
	70					
	75					
	80					
	85					
	90					
	95					
	100					



Einbauhinweis Datenträger
Installation note for data carriers