

1) powierzchnia aktywna, 2) Nośnik danych, 3) Strefa wolna, 4) Strefa wolna dookoła, 5) Moment dociągania



### Basic features

<b>Dopuszczenie / Zgodność</b>	CE UKCA cULus WEEE
<b>EN 55011</b>	Wlk.1,kl.A
<b>Kształt anteny</b>	okrągły
<b>Zasada działania</b>	Urządzenie do zapisu/odczytu

### Display/Operation

<b>Wskaźnik zadziałania</b>	Pole COM, LED żółta Pole RF , LED czerwona Zasilanie (ON), zielona dioda LED
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### Electrical connection

<b>Przylącze</b>	M12x1-Męski, 8-stykowe
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### Electrical data

<b>Maks. pobór prądu przy 24V DC</b>	150 mA
<b>Napięcie robocze <math>U_b</math></b>	10...30 VDC
<b>Tętnienia resztkowe maks.</b>	włącznie

### Environmental conditions

<b>Area of operation</b>	Indoor
<b>Ciągłe obciążenie udarowe</b>	tak
<b>EN 60068-2-27 szok</b>	tak
<b>EN 60068-2-32 Swobodny upadek</b>	tak
<b>EN 60068-2-6 wibracja</b>	tak
<b>Stopień ochrony</b>	IP67
<b>Stopień zanieczyszczenia</b>	2
<b>Temperatura otoczenia</b>	-20...50 °C
<b>Temperatura przechowywania</b>	-20...70 °C
<b>Wysokość maks.</b>	2000 m
<b>Względna wilgotność powietrza</b>	0...90 %, bez skraplania

HF (13.56 MHz)  
BIS M-410-068-001-00-S115  
Kod artykułu: BIS00W2

# BALLUFF

## Functional Characteristics

Obsługiwane typy nośników danych    DIN  
  ISO  
  14443  
  DIN ISO 15693

## Interface

Interfejs                                    RS232

## Material

Materiał obudowy                        PC, z zalewą PU

## Mechanical data

Masa                                        66.00 g  
Montaż                                     bez metalu (wolna strefa)  
Wymiary                                    40 x 24 x 56 mm

## 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.

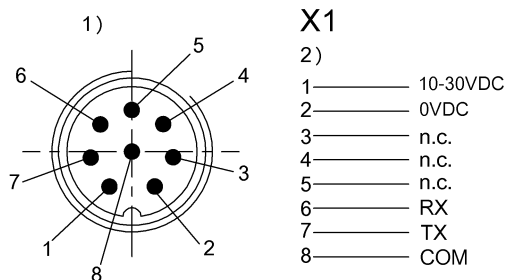
The device can be cleaned with a slightly damp cloth.

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

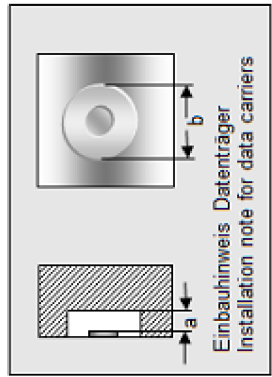


- 1) Widok w kierunku wtyku
- 2) Wtyczka 8 -styk./ funkcja

## Help Views

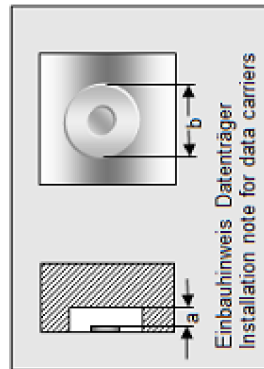
**BIS M-410-\_\_**

	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
passende Datenträger Appropriate data carriers					
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
Lesabstand 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
	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				



**BIS M-410-\_\_**

	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
passende Datenträger Appropriate data carriers					
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	0 ±15	0 ±20	0 ±22	0 ±25
	5 ±15	5 ±15	5 ±20	5 ±22	5 ±25
	10 ±12	10 ±12	10 ±20	10 ±22	10 ±25
	15 ±8	15 ±8	15 ±16	15 ±20	15 ±25
	20	20	20	20	20
	25	25	25	25	25
	30	30	30	30	30
	32	32	32	32	32
	36	36	36	36	36
	40	40	40	40	40
	45	45	45	45	45
	50	50	50	50	50
	55	55	55	55	55
	60	60	60	60	60
	65	65	65	65	65
	68	68	68	68	68
	75	75	75	75	75
	80	80	80	80	80
	85	85	85	85	85
	90	90	90	90	90
	95	95	95	95	95



**BIS M-410-\_\_**

	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
passende Datenträger Appropriate data carriers					
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 5 10 15 20 23 30 32 35 40 46 50 55 60 65 68 70 80 85 90 95	±35 ±40 ±40 ±40 ±40 ±40 ±32 ±32 ±32 ±32 ±32 ±24 ±24 ±16 ±16 ±15 ±15 ±15	±44 ±44 ±44 ±44 ±44 ±32 ±32 ±32 ±32 ±32 ±32 ±25 ±25 ±15 ±15 ±15	±24 ±24 ±18 ±18 ±18 ±10	±24 ±24 ±18 ±18 ±18 ±10
Offset in mm at distance					

