

1) 感應面, 2) 數據載體, 3) 緩衝區, 4) 擰緊力矩, 5) LED 運行顯示



### Basic features

EN 55022	Gr. 1, Cl. A
功能原理	處理器
天線形狀	圓形
認證	CE UKCA cULus WEEE

### Display/Operation

功能顯示	LED 黃色 TP (標籤存在) LED 綠色 電源 (AN)
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### Electrical connection

導線長度 L	0.3 m
接口	M12x1 插頭, 4 針, A 編碼
連接方式	插接器, 0.30 m

### Electrical data

24 V DC 時最大耗電量	150 mA
傳輸率	COM2 (38.4 kBaud)
工作電壓 $U_b$	18 - 30 VDC 僅支援 LPS / 2 級
餘波, 最大	1.3 Vss

### Environmental conditions

Area of operation	Indoor
EN 60068-2-27, 衝擊	是
EN 60068-2-32, 自由落體	是
EN 60068-2-6, 振動	是
倉儲溫度	-20...85 °C
受污程度	2
持續衝擊作用	是
最大高度位置	2000 m
環境溫度	0...70 °C
相對空氣濕度	0 - 90 %, 不凝結
防護等級	IP67

### Functional Characteristics

支援的數據載體類型	DIN ISO 14443 DIN ISO 15693
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### IO-Link

IO-Link 設定檔 IDs	N/A
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### Interface

介面	IO-Link 1.1
過程數據 IN	10 Byte

### Material

外殼材質	ABS
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HF (13.56 MHz)  
BIS M-405-045-001-07-S4  
訂購代碼: BIS012N

# BALLUFF

## Mechanical data

安裝

無金屬 (緩衝區)

尺寸

35 x 17 x 80 mm

應用重量

73.00 g

## Remarks

在安裝時，應注意相應國家的技術標準和規定。

在額定條件下，數值不得另行規定。

附件單獨訂購。

如安裝在金屬件內：注意緩衝區。

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.

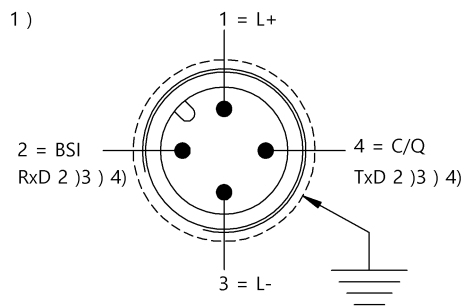
- Shut down the device in the event of malfunctions.

- Secure the system against unauthorized use.

- Check fastening and tighten if necessary.

The product is maintenance-free.

## Connector Drawings



1) 視圖沿插接方向

2) BSI service interface

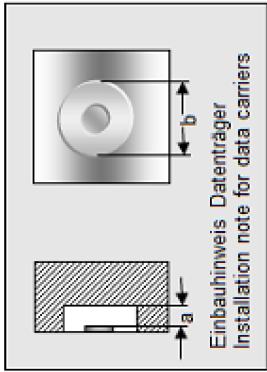
3) Do not connect power

4) (Only for Balluff Service)

## Help Views

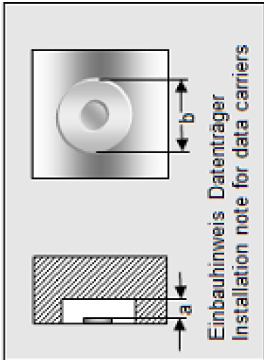
**BIS M-405-XXX-001-\_\_**

	BIS M-101-01/L	BIS M-102-01/L	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	0-20 0-15 0-12	0-28 0-20 0-12	0-7 0-6	0-11 0-7	0-28 0-16
Lesabstand in mm Read distance in mm	0-20 0-15 0-12	0-28 0-20 0-12	0-7 0-6	0-11 0-7	0-28 0-16
Versatz in mm bei Abstand von Offset in mm at distance	0 5 ±14 ±10 ±6 9 ±14 ±8 ±4 12 ±10 ±4 ±2 15 ±10 ±2 16 ±8 18 ±6 20 ±5 22 25 ±15 30 32 35 40 43 45 50 52 60 65 70	±20 ±15 ±6 ±20 ±15 ±6 ±20 ±15 ±3 ±20 ±13 ±2 ±20 ±10 ±18 ±3 ±16 ±15 ±15 ±10	±7 ±6 ±7 ±6 ±5	±9 ±6 ±8 ±6 ±5	±16 ±10 ±16 ±10 ±14 ±8 ±14 ±6 ±14 ±4 ±14 ±14 ±12 ±12



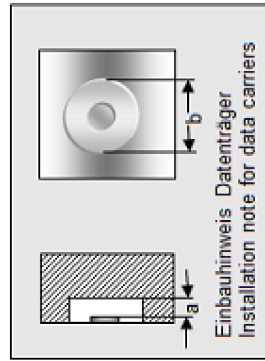
**BIS M-405-xxx-001-\_\_**

	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L	BIS M-1L4-03/L-D018
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
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100 >60 >50	>100 >60 >50	>150 >90 >70	>100
Schreibabstand in mm Write distance in mm	0-20 0-15 0-8	0-28 0-18 0-10	0-38 0-25 0-15	0-18
Lesabstand in mm Read distance in mm	0-20 0-15 0-8	0-28 0-18 0-10	0-38 0-25 0-15	0-18
Versatz in mm bei Abstand von	0 ±12 ±8 ±6 5 ±12 ±8 ±5 9 ±10 ±6 12 ±8 ±4 15 ±8 ±2 16 ±5 18 ±5 20 ±5	±16 ±10 ±7 ±16 ±10 ±7 ±14 ±8 ±2 ±14 ±7 ±14 ±6 ±14 ±3 ±14 ±2 ±14 ±12 ±12	±22 ±16 ±13 ±22 ±16 ±13 ±22 ±14 ±10 ±20 ±13 ±8 ±20 ±12 ±6 ±20 ±10 ±20 ±10 ±20 ±8 ±20 ±6 ±20 ±4	±11 ±11 ±10 ±8 ±8 ±8 ±2
Offset in mm at distance				



**BIS M-405-xxx-001-**

passende Datenträger Appropriate data carriers	BIS M-140-02/A- xx	BIS M-142-02/A- xx	BIS M-143-02/A- xx	BIS M-144-02/A- xx
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>0	>0	>0	>0
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-22	0-22	0-13	0-22
Leseabstand in mm Read distance in mm	0-22	0-22	0-13	0-22
Versatz in mm bei Abstand von	0 ±13	±13	±10	±13
	5 ±13	±13	±10	±13
	10 ±13	±13	±9	±13
	13 ±11	±11	±5	±11
	15 ±11	±11		±11
	18 ±11	±11		±11
	20 ±7	±7		±7
	22 ±7	±7		±7
	25			
	28			
	30			
	32			
	35			
	40			
	43			
	45			
	50			
	52			
	60			
	65			
	70			



**BIS M-405-XXX-001-** \_\_\_\_\_

passende Datenträger Appropriate data carriers	BIS M-115-03/A				
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			
Lesabstand 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				

