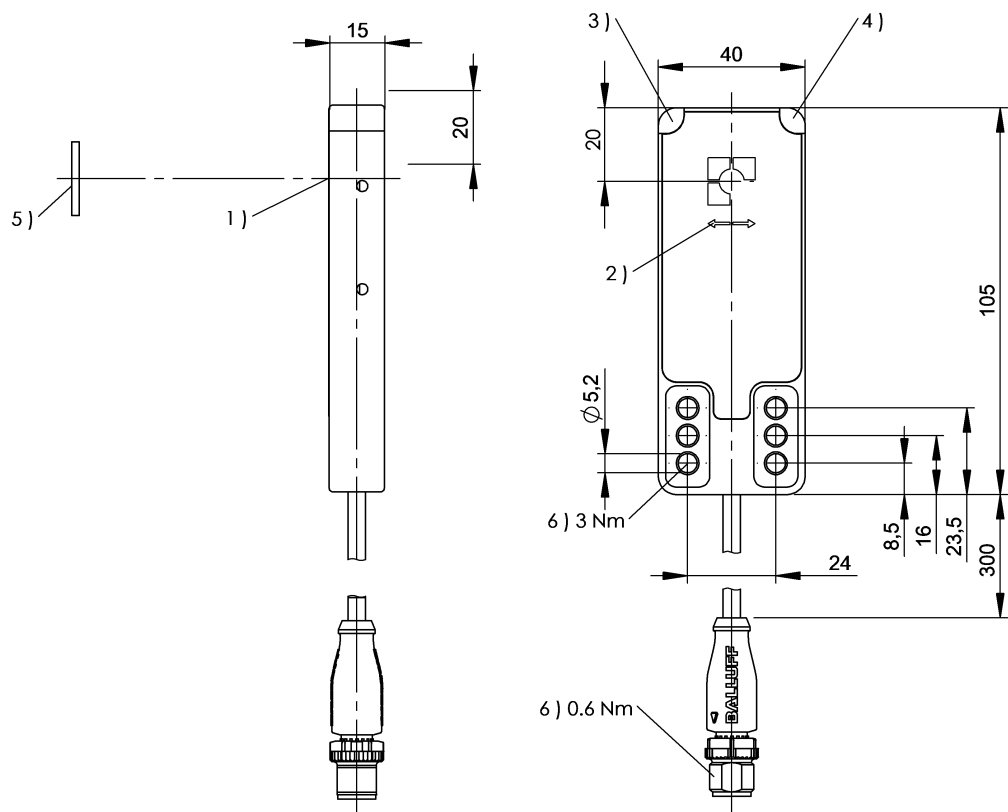




1) Superficie activa, 2) Eje lectura/escritura, 3) LED tensión de servicio, 4) LED (CP), 5) Soporte de datos, 6) Par de apriete



Basic features

|                             |                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------|
| Forma de la antena          | Barra                                                                                         |
| Homologación/conformidad    | CE<br>UKCA<br>FCC Part 15<br>IC (Radio)<br>WEEE<br>MIC<br>KC<br>NBTC<br>IMDA<br>MCMC<br>cULus |
| Principio de funcionamiento | Cabezal de escritura/lectura                                                                  |

Display/Operation

|                              |                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------|
| Indicación de funcionamiento | CP (código presente), LED amarillo<br>Potencia (CON), LED verde<br>Operativo, LED parpadeando en verde |
|------------------------------|--------------------------------------------------------------------------------------------------------|

Electrical connection

|          |                                       |
|----------|---------------------------------------|
| Conexión | M12x1-Conector, 4-polos, A-codificado |
|----------|---------------------------------------|

Electrical data

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Consumo de corriente máx. para 24 V CC | 150 mA                              |
| Ondulación residual máx.               | 1.3 Vss                             |
| Tasa de transmisión                    | COM2 (38.4 Kbaudios)                |
| Tensión de servicio Ub                 | 18...30 VDC Sólo admite LPS/Clase 2 |

AF (13.56 MHz)  
BIS M-458-045-001-07-S4  
Código de pedido: BIS014K

**BALLUFF**

Environmental conditions

|                               |                             |
|-------------------------------|-----------------------------|
| Altitud máx.                  | 2000 m                      |
| Area of operation             | Indoor                      |
| Carga de choque continuo      | Sí                          |
| EN 60068-2-27, choque         | Sí                          |
| EN 60068-2-32, caída libre    | Sí                          |
| EN 60068-2-6, vibración       | Sí                          |
| Grado de protección           | IP67                        |
| Grado de suciedad             | 2                           |
| Humedad relativa del aire     | 0... 90 %, sin condensación |
| Temperatura ambiente          | 0...70 °C                   |
| Temperatura de almacenamiento | -20...85 °C                 |

Functional Characteristics

|                                        |                                |
|----------------------------------------|--------------------------------|
| Tipos de soportes de datos compatibles | DIN ISO 14443<br>DIN ISO 15693 |
|----------------------------------------|--------------------------------|

IO-Link

|                       |     |
|-----------------------|-----|
| Perfil de IO-Link IDs | N/A |
|-----------------------|-----|

Interface

|                             |             |
|-----------------------------|-------------|
| Entrada de datos de proceso | 10 Byte     |
| Interfaz                    | IO-Link 1.1 |

Material

|                                                   |                                      |
|---------------------------------------------------|--------------------------------------|
| Material de carcasa                               | Cinc, Fundición a presión, níquelada |
| Material de la carcasa, protección de superficies | níquelada                            |

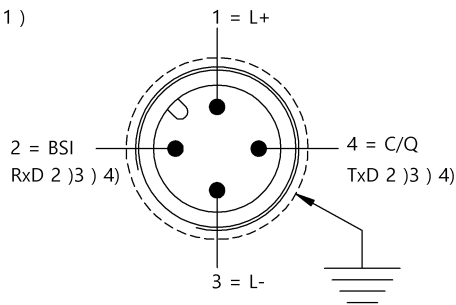
Mechanical data

|                    |                  |
|--------------------|------------------|
| Dimensiones        | 40 x 15 x 105 mm |
| Peso de aplicación | 360.00 g         |

Remarks

Para la instalación inicial: consulte información sobre los accesorios en [www.balluff.com](http://www.balluff.com)  
Valores considerados bajo condiciones normales, a menos que se indique lo contrario.  
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) Vista en dirección enchufe  
2) BSI service interface  
3) Do not connect power  
4) (Only for Balluff Service)

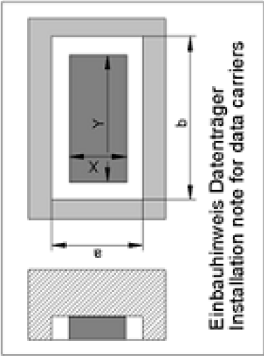
AF (13.56 MHz)  
BIS M-458-045-001-07-S4  
Código de pedido: BIS014K



Help Views

BIS M-458-045-001-

| passende Datenträger<br>Appropriate data carriers                                           | BIS M-150-02/A                                                                                                                                                                | BIS M-151-02/A                                                                                         | BIS M-150-02/A                                                                                                     | BIS M-151-02/A                                                                               |  |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|
| Freizone Datenträger in mm ( a )<br>Data carrier clear zone in mm                           |                                                                                                                                                                               |                                                                                                        |                                                                                                                    |                                                                                              |  |
| Freizone Datenträger in mm ( b )<br>Data carrier clear zone in mm                           | >200 >200                                                                                                                                                                     | >200 >200                                                                                              | >200 >200                                                                                                          | >200 >200                                                                                    |  |
| Freizone Datenträger in mm ( b )<br>Data carrier clear zone in mm                           | >200 >200                                                                                                                                                                     | >200 >200                                                                                              | >200 >200                                                                                                          | >200 >200                                                                                    |  |
| Datenträger Metall-Montagefläche 40x22<br>Data carrier metal mounting surface 40x22         | 0-38 0-38                                                                                                                                                                     | 0-38 0-38                                                                                              |                                                                                                                    |                                                                                              |  |
| Datenträger Metall-Montagefläche ≥ 200x200<br>Data carrier metal mounting surface ≥ 200x200 |                                                                                                                                                                               |                                                                                                        |                                                                                                                    |                                                                                              |  |
| Schreibabstand in mm<br>Write distance in mm                                                | 0-38 0-38                                                                                                                                                                     | 0-38 0-38                                                                                              | 0-42 0-42                                                                                                          | 0-34 0-34                                                                                    |  |
| Lesabstand in mm<br>Read distance in mm                                                     | 0-38 0-38                                                                                                                                                                     | 0-38 0-38                                                                                              | 0-42 0-42                                                                                                          | 0-34 0-34                                                                                    |  |
| Versatz in mm<br>bei Abstand von<br>Offset in mm<br>at distance                             | 0-38 0-38<br>X Y<br>0 ±43 ±18<br>5 ±43 ±18<br>10 ±43 ±18<br>15 ±40 ±17<br>20 ±40 ±17<br>30 ±35 ±15<br>34 ±18 ±5<br>38 ±18 ±5<br>40<br>42<br>50<br>60<br>70<br>80<br>90<br>100 | 0-38 0-38<br>Y X<br>±40 ±20<br>±40 ±20<br>±40 ±20<br>±35 ±18<br>±35 ±18<br>±30 ±15<br>±10 ±5<br>±10 ±5 | 0-42 0-42<br>X Y<br>±45 ±21<br>±45 ±21<br>±45 ±21<br>±43 ±20<br>±43 ±20<br>±40 ±18<br>±24 ±12<br>±24 ±12<br>±15 ±8 | 0-34 0-34<br>Y X<br>±35 ±17<br>±35 ±17<br>±35 ±17<br>±33 ±15<br>±33 ±15<br>±28 ±13<br>±10 ±5 |  |



BIS M-458-045-001-

| passende Datenträger<br>Appropriate data carriers                 | BIS M-152-03/A                                                                                                                               | BIS M-153-02/A                                                                                                                                      | BIS M-153-02/A                                                                                                                                      | BIS M-154-03/A                                                      |  |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|
| Freizone Datenträger in mm ( a )<br>Data carrier clear zone in mm | >200 >200                                                                                                                                    | >240 >240                                                                                                                                           | >240 >240                                                                                                                                           | >200 >200                                                           |  |
| Freizone Datenträger in mm ( b )<br>Data carrier clear zone in mm | >200 >200                                                                                                                                    | >480 >480                                                                                                                                           | >480 >480                                                                                                                                           | >200 >200                                                           |  |
| Freizone Datenträger in mm ( c )<br>Data carrier clear zone in mm | >50 >50                                                                                                                                      | >50 >50                                                                                                                                             | >0 >0                                                                                                                                               | >50 >50                                                             |  |
| Schreibabstand in mm<br>Write distance in mm                      | 0-18 0-18                                                                                                                                    | 0-54 0-54                                                                                                                                           | 0-54 0-54                                                                                                                                           | 0-16 0-16                                                           |  |
| Leseabstand in mm<br>Read distance in mm                          | 0-18 0-18                                                                                                                                    | 0-54 0-54                                                                                                                                           | 0-54 0-54                                                                                                                                           | 0-16 0-16                                                           |  |
| Versatz in mm<br>bei Abstand von<br>Offset in mm<br>at distance   | X Y<br>0 ±22 ±12<br>5 ±22 ±12<br>10 ±21 ±10<br>15 ±16 ±8<br>16 ±5 ±2<br>18 ±5 ±2<br>30<br>35<br>40<br>45<br>50<br>54<br>56<br>60<br>70<br>80 | X Y<br>0-54 0-54<br>±60 ±30<br>±60 ±30<br>±60 ±30<br>±55 ±27<br>±55 ±27<br>±55 ±27<br>±55 ±27<br>±50 ±25<br>±50 ±25<br>±35 ±17<br>±35 ±17<br>±15 ±7 | X Y<br>0-54 0-54<br>±60 ±30<br>±60 ±30<br>±60 ±30<br>±55 ±27<br>±55 ±27<br>±55 ±27<br>±55 ±27<br>±50 ±25<br>±50 ±25<br>±35 ±17<br>±35 ±17<br>±15 ±7 | X Y<br>0-16 0-16<br>±20 ±10<br>±20 ±10<br>±19 ±9<br>±14 ±7<br>±5 ±2 |  |

Einbauhinweis Datenträger  
Installation note for data carriers

**BIS M-458-045-001-**

| passende Datenträger           | BIS M-191-02/A |     |  |  |
|--------------------------------|----------------|-----|--|--|
| Appropriate data carriers      |                |     |  |  |
| Freizone Datenträger in mm (a) |                |     |  |  |
| Data carrier clear zone in mm  | >27            | >27 |  |  |
| Freizone Datenträger in mm (b) |                |     |  |  |
| Data carrier clear zone in mm  | >27            | >27 |  |  |

[illegible]