

BALLUFF

Environmental conditions

Ambient temperature	0...70 °C
Cable temperature, drag chain	-25...60 °C
Cable temperature, fixed routing	-50...80 °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
Storage temperature	-20...85 °C

Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693
------------------------------	--------------------------------------

Interface

Interface	IO-Link
Process data IN	32 bytes

Material

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

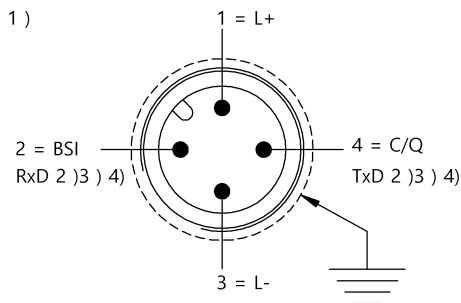
Mechanical data

Application weight	220.00 g
Dimension	Ø 18 x 45.5 mm
Installation	metal-free (clear zone)
Size	M18x1

Remarks

When installing, the technical standards and regulations of the corresponding countries must be observed.
Use included nuts and fastening clamps for installation.
Values are under rated conditions unless otherwise specified.
Order accessories separately.
For installation in metal: Observe clear zone.
For basic equipment see IO-Link catalog.

Connector Drawings



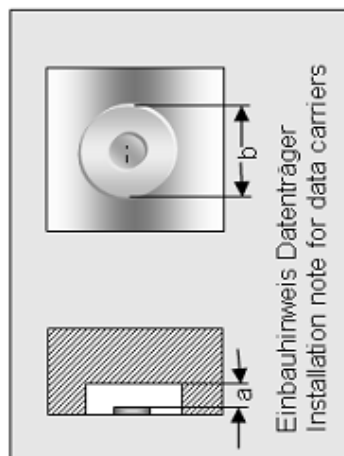
- 1) View towards connector
- 2) BSI service interface
- 3) Do not connect power
- 4) (Only for Balluff Service)

Help Views

BIS M-402-xxx-002-

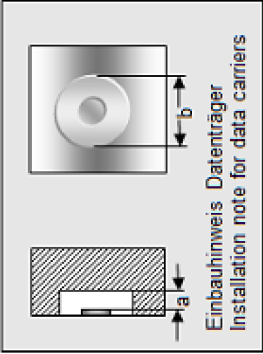
passende Datenträger Appropriate data carriers	BIS M-105-01/A	BIS M-105-02/A	BIS M-122-01/A	BIS M-122-02/A	BIS M-110-02/L
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>10 >0	>10 >0	>10 >0	>10 >0	>25
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>60 >0	>60 >0	>60 >0	>60 >0	>80
Schreibabstand in mm Write distance in mm	0-6 0-4	0-8 0-6	0-5 0-4	0-8 0-5	0-15
Leseabstand in mm Read distance in mm	0-6 0-4	0-8 0-6	0-5 0-4	0-8 0-5	0-15
Versatz in mm bei Abstand von	0 ±3 ±3	±4 ±3	±3 ±2	±4 ±3	±7
	5 ±2	±3 ±2	±2	±3 ±2	±7
	9				±5
	12				±3
	15				±3
	16				
	18				
	20				
	22				
	25				
	30				
	32				
	35				
	40				
	43				
	45				
	50				
	52				
	60				
	65				
	70				

Einbauhinweis Datenträger
Installation note for data carriers



BIS M-402-xxx-002-

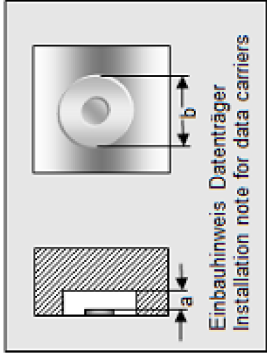
passende Datenträger Appropriate data carriers	BIS M-101-01/L	BIS M-111-02/L			
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>25			
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100			
Schreibabstand in mm Write distance in mm	0-14	0-18			
Leseabstand in mm Read distance in mm	0-14	0-18			
Versatz in mm bei Abstand von	0 ±10	0 ±12			
	5 ±10	±12			
	10 ±9	±11			
	14 ±5	±10			
	15	±10			
	18	±5			
Offset in mm at distance	20				
	25				
	30				
	35				
	40				
	45				
	50				
	55				
	60				
	65				
	70				
	75				
	80				
	85				
	90				



Einbauhinweis Datenträger
Installation note for data carriers

BIS M-402-xxx-002-

passende Datenträger Appropriate data carriers	BIS M-130-03/L	BIS M-130-07/L	BIS M-132-03/L- HT	BIS M-143-02/A- xx	
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>25	>25	>0	
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>100	>100	
Schreibabstand in mm Write distance in mm	0-9	0-9	0-20	0-9	
Leseabstand in mm Read distance in mm	0-9	0-9	0-20	0-9	
Versatz in mm bei Abstand von	0 ±6	±6	±12	±6	
	5 ±6	±6	±12	±6	
	7 ±5	±5	±12	±6	
	9 ±1	±1	±12	±4	
	10		±12		
	15		±10		
	17		±10		
	20		±4		
	22				
	25				
	30				
	32				
	35				
	40				
	43				
	45				
	50				
	52				
	60				
	65				
	70				



Einbauhinweis Datenträger
Installation note for data carriers