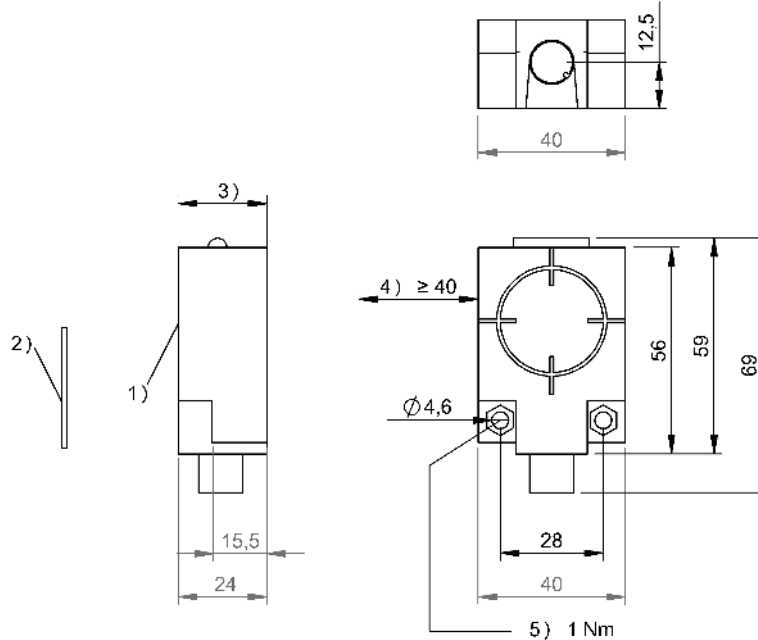


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1) Sensing surface 2) Data carrier 3) Clear zone 4) Clear zone surrounding 5) Tightening torque



Display/Operation

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

Connection	USB: M12x1-Connector, 5-pole
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Electrical data

Current consumption max. at 5 V DC	500 mA
EN 300330-1	Power Class 5
Nominal voltage	5 VDC
Operating voltage U_b	5 V DC

Environmental conditions

Ambient temperature	-20...50 °C
EN 60068-2-27, Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-6, Vibration	yes
Protection type IEC 60529	IP67

Storage temperature	-20...70 °C
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Functional safety

EN 60068-2-32 Free fall	yes
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General data

Antenna type	round
Approval/Conformity	UL-FILE E227256, Vol.X1, BIS CE
EN 55011	Size 1, Cl. A

Material

Housing material	PC, With PU potting
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Mechanical data

Application weight	66.00 g
Dimension	40 x 24 x 56 mm
Installation	with clear zone (in steel)

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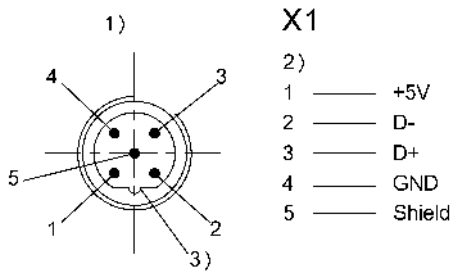
Output/Interface

Interface USB 2.0

Range/Distance

Residual ripple max. included

Connector view



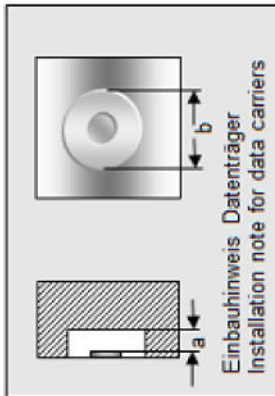
1) View towards connector 2) Connector 5-pin/
Function 3) Coding B

Additional View

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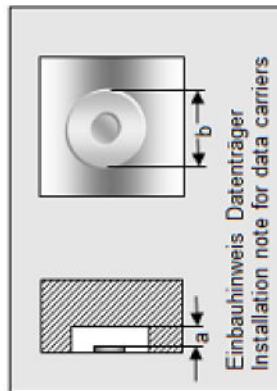
	BIS M-130-03/L	BIS M-130-07/L	BIS M-131-10/L	BIS M-132-03/L	BIS M-132-03/L-HT
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>10	>10	>10	>25	>25
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>60	>60	>60	>100	>100
Schreibabstand in mm Write distance in mm	0-17	0-12	0-5	0-48	0-40
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
	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				



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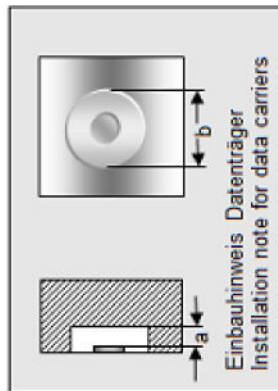
	BIS M-132-10/L	BIS M-132-10/L- HT	BIS M-133-02/A	BIS M-134-10/L	BIS M-134-10/L- HT
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>25	>25	>50	>50
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100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



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	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 ±35	±40	±44		
	5 ±35	±40	±44		
	10 ±35	±40	±44		
	15 ±35	±40	±44		
	20 ±35	±40	±44		
	23 ±30	±32	±32	±24	±24
	30 ±30	±32	±32	±24	±24
	32 ±30	±32	±32	±18	±18
	35 ±30	±32	±32	±18	±18
	40 ±30	±32	±32	±18	±18
	46 ±24	±32	±32	±18	±18
	50 ±24	±32	±32	±10	±10
	55 ±16	±24	±25		
	60 ±16	±24	±25		
	65	±15	±15		
	68	±15	±15		
	70	±15	±15		
	80				
	85				
	90				
	95				



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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				
	15 ±22				
	20 ±22				
	25 ±20				
	30 ±20				
	35 ±20				
	40 ±10				
	46				
	50				
	56				
	60				
	65				
	70				
	75				
	80				
	85				
	90				
	95				
	100				

