

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



Basic features

Antenna type	round
Approval/Conformity	CE UKCA cULus WEEE
EN 55011	Size 1, Cl. A
Principle of operation	Read/write device

Display/Operation

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

Electrical connection

Connection	(RS485): M12x1-Male, 5-pin
------------	----------------------------

Electrical data

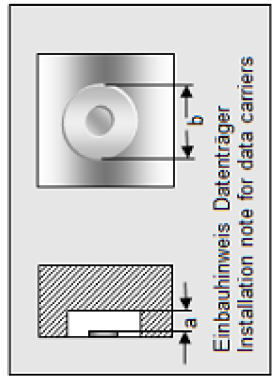
Current consumption max. at 24 V DC	150 mA
Operating voltage U_b	10...30 VDC
Residual ripple max.	included

Environmental conditions

Altitude max.	2000 m
Ambient temperature	-20...50 °C
Area of operation	Indoor
Contamination scale	2
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
Relative humidity	0...90 %, non-condensing
Storage temperature	-20...70 °C

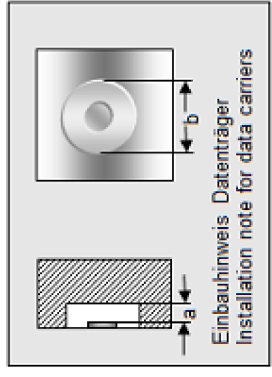
BIS M-410-__

	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
Lesabstand in mm Read distance in mm	0-15	0-15	0-32	0-32	0-36
Versatz in mm bei Abstand von	0 ±15 5 ±15 10 ±12 15 ±8	0 ±15 ±15 ±12 ±8	0 ±20 ±20 ±20 ±16 ±16 ±10 ±8	0 ±22 ±22 ±22 ±20 ±20 ±12 ±12 ±8	0 ±25 ±25 ±25 ±25 ±25 ±20 ±20 ±12 ±12
Offset in mm at distance	0 5 10 15 20 25 30 32 36 40 45 50 55 60 65 68 75 80 85 90 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	±35 ±40 ±40 ±40 ±40 ±40 ±32 ±32 ±32 ±32 ±32 ±24 ±24 ±16	±44 ±44 ±44 ±44 ±44 ±32 ±32 ±32 ±32 ±32 ±25 ±25 ±15 ±15	±18 ±18 ±18 ±18 ±18 ±24 ±24 ±18 ±18 ±18 ±10 ±10 ±10	±18 ±18 ±18 ±18 ±18 ±24 ±24 ±18 ±18 ±18 ±10 ±10
Offset in mm at distance	65 68 70 80 85 90 95				

