

1) Sensing surface, 2) Read/write axis, 3) LED Power, 4) LED (CP), 5) Data carrier, 6) Tightening torque



Basic features

Antenna type	Rod
Approval/Conformity	CE UKCA FCC Part 15 IC (Radio) WEEE MIC KC NBTC IMDA MCMC
Principle of operation	Read/write head

Display/Operation

Function indicator	CP (Code tag present), LED yellow Power (ON), LED green Operating, LED green flashing
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
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Electrical data

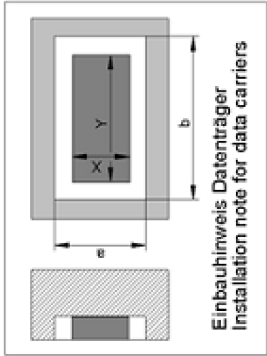
Current consumption max. at 24 V DC	150 mA
Operating voltage U_b	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 Vpp
Transfer rate	COM2 (38.4 kBaud)

Environmental conditions

Altitude max.	2000 m
Ambient temperature	0...70 °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...85 °C

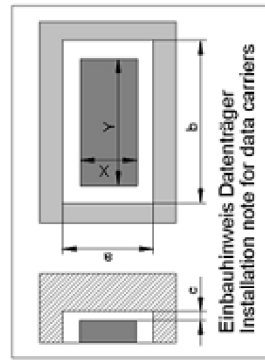
BIS M-458-045-001-

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



BIS M-458-045-001-

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



BIS M-458-045-001-

passende Datenträger Appropriate data carriers	BIS M-191-02/A				
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			

Schreibabstand in mm Write distance in mm	0-25	0-25			
Lesabstand in mm Read distance in mm	0-25	0-25			
Versatz in mm bei Abstand von Offset in mm at distance	X	Y			
	0	±30	±20		
	5	±30	±20		
	10	±30	±20		
	15	±25	±15		
	20	±15	±10		
	25	±5	±5		
	27				
	35				
	40				
	42				
	50				
	57				
	60				
	65				
	70				
	75				

