

1) Sensing surface, 2) Data carrier, 3) Tightening torque, 4) LED (CP), 5) LED (Power)



### Basic features

<b>Antenna type</b>	round
<b>Approval/Conformity</b>	CE FCC Part 15 IC RSS-210 cULus WEEE

### Display/Operation

<b>Function indicator</b>	Power (ON), LED green CP (Code tag present), LED yellow Operating, LED yellow flashing
---------------------------	--

### Electrical connection

<b>Connection</b>	Male, 4-pin
-------------------	-------------

### Electrical data

<b>EN 300330-1</b>	Power Class 5
--------------------	---------------

### Environmental conditions

<b>Ambient temperature</b>	0...70 °C
<b>Continuous shock load</b>	yes
<b>EN 60068-2-27, Shock</b>	yes
<b>EN 60068-2-32 Free fall</b>	yes
<b>EN 60068-2-6, Vibration</b>	yes
<b>Protection degree</b>	IP67
<b>Storage temperature</b>	-20...85 °C

### Functional Characteristics

<b>Supported data carrier types</b>	DIN ISO 15693 DIN ISO 15693 (High Memory)
-------------------------------------	---

### Functional safety

<b>MTTF (40 °C)</b>	212 a
---------------------	-------

### Material

<b>Housing material</b>	Brass, Brass nuts with white bronze, coated
<b>Housing material, surface protection</b>	coated

### Mechanical data

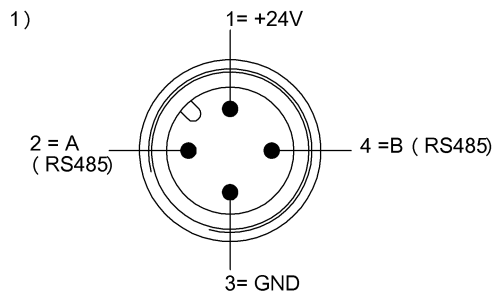
<b>Application weight</b>	100.00 g
<b>Dimension</b>	Ø 30 x 65.9 mm
<b>Installation</b>	metal-free (clear zone) on metal flush in metal
<b>Size</b>	M30x1.5

## Remarks

Only together with BIS V-61xx  
For basic equipment: Accessories see [www.balluff.com](http://www.balluff.com)  
Use included nuts for installation.  
Values are under rated conditions unless otherwise specified.  
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings

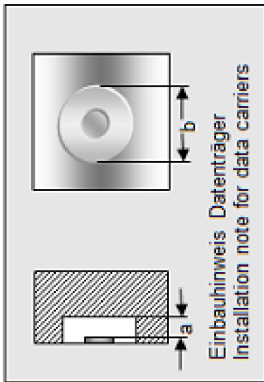


1 ) View towards connector

## Help Views

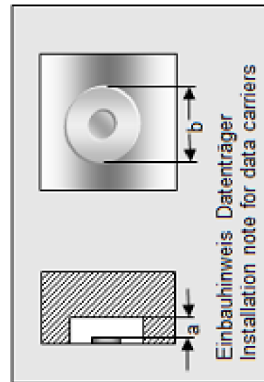
**BIS VM-333-\_\_\_**

	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L	BIS M-142-02/A- XX	BIS M-143-02/A- XX
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>25	>25	>50	>0	>0
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100	>100	>150	>100	>100
Schreibabstand in mm Write distance in mm	0-18	0-21	0-30	0-18	0-13
Leseabstand in mm Read distance in mm	0-18	0-21	0-30	0-18	0-13
Versatz in mm bei Abstand von	±9	±13	±20	±9	±9
	5 ±9	10 ±13	15 ±20	5 ±9	5 ±9
	10 ±9	15 ±13	20 ±20	10 ±9	10 ±9
	13 ±8	18 ±12	25 ±18	15 ±8	15 ±8
	15 ±8	20 ±12	30 ±18	20 ±8	20 ±8
	16 ±4	21 ±11	35 ±18	25 ±5	25 ±5
	18 ±4	23 ±11	40 ±18	30 ±5	30 ±5
	20 ±5	25 ±11	45 ±18	35 ±5	35 ±5
	21 ±5	27 ±11	50 ±18	40 ±5	40 ±5
	25 ±5	30 ±11	55 ±18	45 ±5	45 ±5
	30 ±5	35 ±11	60 ±18	50 ±5	50 ±5
	32 ±5	40 ±11	65 ±18	55 ±5	55 ±5
	35 ±5	45 ±11	70 ±18	60 ±5	60 ±5
	40 ±5	50 ±11	75 ±18	65 ±5	65 ±5
	43 ±5	55 ±11	80 ±18	70 ±5	70 ±5
	45 ±5	60 ±11	85 ±18	75 ±5	75 ±5
	50 ±5	65 ±11	90 ±18	80 ±5	80 ±5
	52 ±5	70 ±11	95 ±18	85 ±5	85 ±5
	60 ±5	75 ±11	100 ±18	90 ±5	90 ±5
	65 ±5	80 ±11	105 ±18	95 ±5	95 ±5
	70 ±5	85 ±11	110 ±18	100 ±5	100 ±5



## BIS VM-333-\_\_

	BIS M-108-14/A	BIS M-142-14/A- xx
passende Datenträger Appropriate data carriers		
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>20	>0
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100	>100
Schreibabstand in mm Write distance in mm	0-15	0-12
Leserabstand in mm Read distance in mm	0-15	0-12
Versatz in mm bei Abstand von	0 ±11 5 ±11 10 ±10 12 ±8 13 ±8 15 ±4	±7 ±7 ±6 ±3
Offset in mm at distance	18 20 21 25 30 32 35 40 43 45 50 52 60 65 70	



## BIS VM-333-\_\_

	BIS M-105-02/A	BIS M-108-02/L BIS M-108-20/L	BIS M-122-02/A	BIS M-128-03/L
passende Datenträger Appropriate data carriers				
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>20	>25 >0 >0	>20	>20
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100	>100 >100 >0	>100	>100
Schreibabstand in mm Write distance in mm	0-13	0-21 0-15 0-13	0-10	0-21
Lesabstand in mm Read distance in mm	0-13	0-21 0-15 0-13	0-10	0-21
Versatz in mm bei Abstand von	±8	±13 ±10 ±10	±7	±12
	5 ±8	±13 ±10 ±10	±7	±12
	8 ±8	±13 ±10 ±9	±6	±12
	10 ±7	±13 ±8 ±8	±4	±12
	13 ±4	±12 ±8 ±3		±11
	15	±12 ±3		±11
	18	±11		±10
	20	±5		±5
	21	±5		±5
	25			
	30			
	32			
	35			
	40			
	43			
	45			
	50			
	52			
	60			
	65			
	70			

