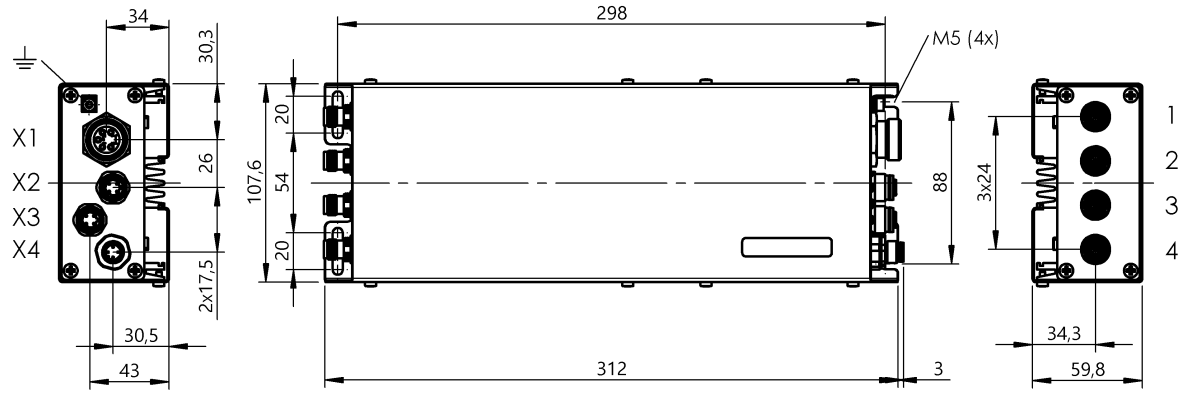
UHF (860...960 MHz)

BIS U-6028-048-114-06-ST28
Order Code: BIS00ZW



Basic features

Approval/Conformity	FCC Part 15 IC (Radio) WEEE cULus
Principle of operation	Processor unit
Radio license	USA Canada Mexico
Standards	EPCglobal™ Class 1, Gen 2 ISO 18000-6C

Display/Operation

Ready/Error	Green LED/Red LED
Tag Operating	LED orange, flashing
Tag Present (TP)	LED orange

Electrical connection

Connection (COM 1)	X2 (Profinet): Male, 4-pin, D-coded
Connection (COM 2)	X3 (Profinet): M12x1-Male, 4-pin, D-coded
Connection (Service)	X4 (RS232): M12x1-Male, 4-pin, A-coded
Connection (supply voltage IN)	X1: 7/8"-Male, 5-pin
Connection slots	1: R-TNC-Male 2: R-TNC-Male 3: R-TNC-Male 4: R-TNC-Male

Electrical data

Antenna impedance	50 Ohm
Current consumption max. at 24 V DC	1 A
Multi-Tag capable	yes
Operating voltage Ub	19.2...28.8 VDC
Output power adjustable	17 dBm…30 dBm (50 mW…1 W)
Residual ripple max.	10 %
Working frequency	902…928 MHz

Environmental conditions

Ambient temperature	-20...55 °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	IP65, with connector
Storage temperature	-20...60 °C

Functional safety

MTTF (40 °C)	44.6 a

Interface

Interface	Profinet galvanically isolated
Service interface	RS232

Material

Housing material	Steel, Aluminum, coated
Housing material, surface protection	coated

Mechanical data

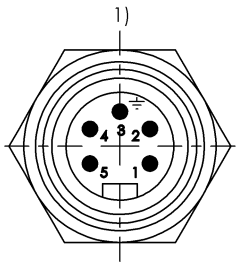
Application weight	2100.00 g
Dimension	110 x 60 x 315 mm

Remarks

Values are under rated conditions unless otherwise specified.
When installing, the technical standards and regulations of the corresponding countries must be observed.
For use only in USA and Canada.
Attention: Use a minimum cable length of 10 meters!
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.

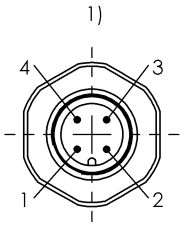
Connector Drawings



X1
2)

Pin	Function
1	0 V
2	0 V
3	FE
4	+24 V DC
5	+24 V DC

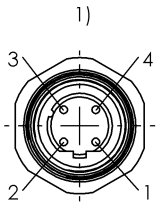
1) View towards connector
2) Male 5-pin/ Function



X4
2)
3)

Pin	Function
1	n.c.
2	TxD
3	GND
4	RxD

1) View towards connector
2) Service port RS232
3) Male 4-pin/ Function



X2 , X3
2)
3)

Pin	Function
1	TD+
2	RD+
3	TD-
4	RD-

1) View towards connector
2) Profinet Port
3) Male 4-pin/ Function