

CMIIT ID: 2020DJ12969

Basic features

Approval/Conformity	SRRC WEEE cULus
Principle of operation	Processor unit
Radio license	China
Standards	EPCglobal™ Class 1, Gen 2 ISO 18000-6C

Display/Operation

In 1	LED orange
In 2	LED orange
Out 1	LED orange
Out 2	LED orange
Out 3	LED orange
Out 4	LED orange
Ready/Error	Green LED/Red LED
Receive data (RxD)	LED orange, flashing
TCP/IP connected	Green LED, flashing
TCP/IP ready	Green LED
Tag Operating	LED orange, flashing
Tag Present (TP)	LED orange
Transmit Data (TxD)	LED orange, flashing

Electrical connection

Connection (COM 1)	X4 (Ethernet TCP/IP): RJ45-Female, 8-pin
Connection (Service)	X3 (RS232): M12x1-Male, 4-pin, A-coded
Connection (supply voltage IN)	X1: Male, 5-pin
Connection slots	1: R-TNC-Male 2: R-TNC-Male 3: R-TNC-Male 4: R-TNC-Male X2 (IN/OUT): Male, 8-pin

Electrical data

Antenna impedance	50 Ohm
Control input	2 (optocoupler isolated)
Control output	4 (optocoupler isolated) PNP
Control voltage active	4...40 V
Control voltage inactive	1.5...-40 V
Current consumption max. at 24 V DC	1 A
Delay time typ.	5 ms
Input current max. at 24 V	11 mA
Multi-Tag capable	yes
Operating voltage Ub	19.2...28.8 VDC
Operating voltage, output Vs	19.2...28.8 V DC
Output current max.	50 mA
Output power adjustable	17 dBm...31.5 dBm (50 mW...1.4 W)
Output resistance Ra	10.0 kOhm to -VS
Residual ripple max.	10 %
Working frequency	920.5...924.5 MHz

UHF (860...960 MHz)
BIS U-6027-060-124-06-ST27
Order Code: BIS012R

BALLUFF

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)	49.3 a
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Interface

Interface	Ethernet TCP/IP
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Material

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

Mechanical data

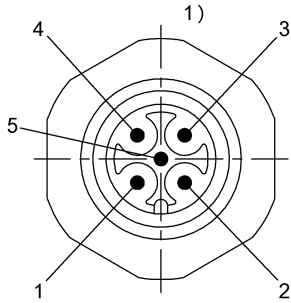
Application weight	2100.00 g
Dimension	110 x 60 x 315 mm

Remarks

Values are under rated conditions unless otherwise specified.
When installing, the technical standards and regulations of the corresponding countries must be observed.
Operation permitted only in PRChina.
For basic equipment: Accessories see www.balluff.com
For more information about MTTF and B10d see MTTF / B10d Certificate

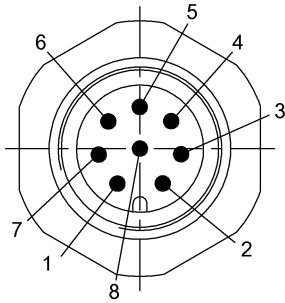
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



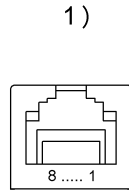
- X1**
 2)
 1 ——— +VS
 2 ———
 3 ——— -VS
 4 ———
 5 ———

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



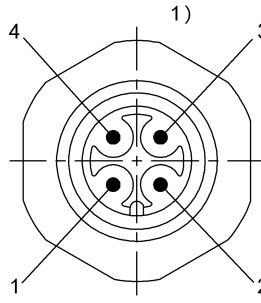
- X2**
 2)
 1 ——— OUT1
 2 ——— OUT2
 3 ——— OUT3
 4 ——— OUT4
 5 ——— +IN1
 6 ——— +Vs
 7 ——— -Vs
 8 ——— +IN2
 1)

- 1) View towards connector
 2) Male 8-pin/ Function



- X4**
 2)
 3)
 1 ——— Tx +
 2 ——— Tx -
 3 ——— Rx +
 4 ———
 5 ———
 6 ——— Rx -
 7 ———
 8 ———

- 1) View towards connector
 2) RJ45
 3) Socket 8-pin/ Function



- X3**
 2)
 3)
 1 ———
 2 ——— TxD
 3 ——— GND
 4 ——— RxD

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