

CMIIT ID: 2020DJ12969

## Basic features

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

## Display/Operation

<b>In 1</b>	LED orange
<b>In 2</b>	LED orange
<b>Out 1</b>	LED orange
<b>Out 2</b>	LED orange
<b>Out 3</b>	LED orange
<b>Out 4</b>	LED orange
<b>Ready/Error</b>	Green LED/Red LED
<b>Receive data (Rx D)</b>	LED orange, flashing
<b>TCP/IP connected</b>	Green LED, flashing
<b>TCP/IP ready</b>	Green LED
<b>Tag Operating</b>	LED orange, flashing
<b>Tag Present (TP)</b>	LED orange
<b>Transmit Data (Tx D)</b>	LED orange, flashing

## Electrical connection

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

## Electrical data

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

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

# BALLUFF

## Environmental conditions

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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

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MTTF (40 °C)	49.3 a
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## Interface

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Interface	Ethernet TCP/IP
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## Material

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

## Mechanical data

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Application weight	2100.00 g
Dimension	110 x 60 x 315 mm

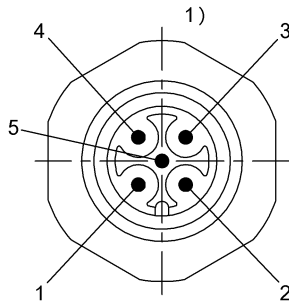
## Remarks

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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](http://www.balluff.com)  
For more information about MTTF and B10d see MTTF / B10d Certificate

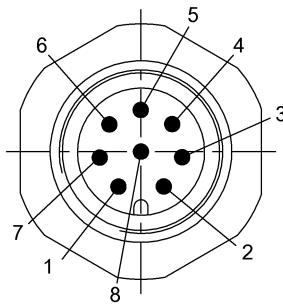
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings



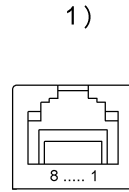
- X1**  
 2)  
 1 ——— +VS  
 2 ———  
 3 ——— -VS  
 4 ———  
 5 ———

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



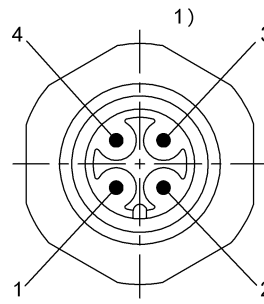
- X2**  
 2)  
 1 ——— OUT1  
 2 ——— OUT2  
 3 ——— OUT3  
 4 ——— OUT4  
 5 ——— +IN1  
 6 ——— +Vs  
 7 ——— -Vs  
 8 ——— +IN2  
 1)

- 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