

1) Tightening torque



Basic features

Approval/Conformity	CE UKCA cULus WEEE
EN 55016-2-3	EN61000-6-4
Principle of operation	Processor unit

Display/Operation

Function indicator	System Failure Status, LED red BUS Failure Status, LED red Ready, LED green Link/Activity Port2, LED green Link/Activity Port1, LED green
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Electrical connection

Connection (COM 1)	Port 1: M12x1-Female, 4-pin, D-coded
Connection (COM 2)	Port 2: M12x1-Female, 4-pin, D-coded
Connection (IO-Link/Service)	M12x1-Female, 5-pin, A-coded
Connection (supply voltage IN)	7/8"-Male, 5-pin
Connection slots	H1: M12x1-Female, 5-pin H2: M12x1-Female, 5-pin H3: M12x1-Female, 5-pin H4: M12x1-Female, 5-pin
Connector port 01, note type	for all VU/VM/VL-3... with connector, 4-pin

Electrical data

Current consumption typ. at 24 V DC	150 mA
EN 61000-4-2/4/5/6	Severity level 2B/3A/2A/3A
IO-Link function	Master (max. 500 mA)
Nominal voltage	24 VDC
Operating voltage Ub	24 V DC LPS Class 2
Residual ripple max.	10 %

Multi-Frequency Processor
BIS V-6108-048-C002
Order Code: BIS013U

BALLUFF

Environmental conditions

Ambient temperature	0...60 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
EN 61000-4-3 (1400...2000 MHz)	Severity level 3A
EN 61000-4-3 (2000...2700MHz)	Severity level 2A
EN 61000-4-3, 80...1000 MHz	Severity level 3A
IP rating	IP65, with connector

Functional safety

MTTF (40 °C)	33.1 a
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Interface

Auxiliary interfaces, number	1x IO-Link
IO-Link version	1.1
Interface	Profinet I/O (IRT) 2 port Switch

Material

Housing material	Zinc, Die casting
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Mechanical data

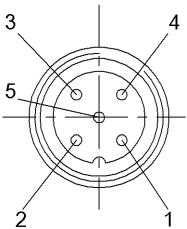
Application weight	750.00 g
Dimension	48 x 62 x 172 mm

Remarks

When installing, the technical standards and regulations of the corresponding countries must be observed.
Values are under rated conditions unless otherwise specified.
Current consumption when 4 read/write heads and IO-Link device are connected to the IO-Link port max. 2 A
For more information about MTTF and B10d see MTTF / B10d Certificate

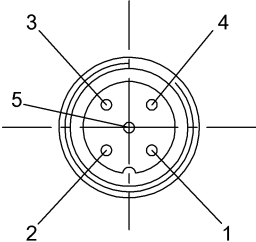
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



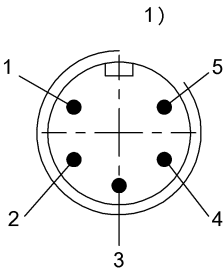
- 1) 2)
IO-Link/ Service
1 — VP (+ 24V DC)
2 — USB-
3 — 0V
4 — Q/C (IO/Link)
5 — USB+

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



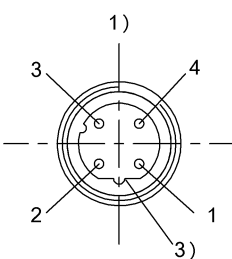
- 1) 2)
H1...H4
1 — VP (+24V DC)
2 — A (RS485)
3 — 0V
4 — B (RS485)
5 — N.C.

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



- 1) 2)
POWER
1 — 0V
2 — 0V
3 — FE
4 — + 24V DC
5 — n.c.

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



- 1) 2)
PROFINET Port 1/2
1 — +TX
2 — +RX
3 — -TX
4 — -RX

- 1) View towards connector
2) Female 4-pin/ Function
3) Coding D