

Basic features

Approval/Conformity	CE UKCA cULus WEEE Ecolab
Component	Base
Function	IO-Link
Secondary features for condition monitoring	Vibration monitoring Internal temperature monitoring
Use	for inductive coupler remote BIC0085

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Short-circuit protection	yes

Electrical data

Operating voltage U_b	21.6...26.4 VDC
Rated operating voltage U_e DC	24 V
Signal type	bi-directional
Type of master port	A

Environmental conditions

Ambient temperature	-25...85 °C
IP rating	IP67, IP68, IP69K
Interference immunity	EN 61000-6-2
Storage temperature	-25...85 °C

Functional safety

MTTF (40 °C)	29.8 a
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IO-Link

IO-Link Profil IDs	0x4000 Identification and Diagnosis
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Interface

Additional diagnostic channel	yes
Additive cycle time	0 ms
Diagnosis data cycle min.	10 ms
Frame type	Device dependent
IO-Link version	1.1
Process data IN	0...32 bytes Diagnostic channel: 2 bytes
Process data OUT	0...32 bytes Diagnostic channel: 1 byte
SIO mode	no
Transfer rate	COM2 (38.4 kBaud) COM3 (230.4 kBaud) Diagnostic channel: COM2 (38.4 kBaud)

Smart Automation and Monitoring System
Inductive Couplers
BIC 1B1-IT1A0-G30EI22-SM4A5A
Order Code: BIC0084

BALLUFF

Material

Housing material	Stainless steel, -
Material sensing surface	LCP

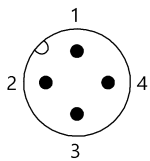
Range/Distance

Range	0...5 mm
Transmission distance	0...5 mm

Mechanical data

Dimension	Ø 30 x 85 mm
Offset	±5 mm
Size	D30.0
Tightening torque pigtail	0.6 Nm
Weight	90 g

Connector Drawings



PIN 1: +24V

PIN 2: I/Q(DI/DO)-C/Q(IO-L CM)

PIN 3: 0V / GND

PIN 4: C/Q, IO-Link