



Electrical connection

Electrical data

Environmental conditions

Display/Operation

Display	Run - LED green Communication - LED green, slow flashing (1 Hz) Ping - LED green, asynchronous very fast flashing (4 Hz) and fast flashing (2 Hz) Event - LED orange, fast flashing (2 Hz)
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Condition Monitoring Sensors
BCM R15E-002-DI00-01,5-S4
Order Code: BCM0002

BALLUFF

Function module ambient pressure

Ambient pressure, measuring range	300...1100 hPa
Ambient pressure, non-linearity	±0.1 % FS
Ambient pressure, resolution	0.15 hPa

Function module contact temperature

Contact temperature, measuring error	±2 % FS
Contact temperature, measuring range	0...70 °C
Contact temperature, non-linearity	±0.75 % FS
Contact temperature, resolution	0.1 °C
Contact temperature, settling time	5 min

Function module relative humidity

Relative humidity, measuring range	5...95 %rF
Relative humidity, non-linearity	±2.5 % FS
Relative humidity, resolution	1 %rF
Relative humidity, settling time	5 min

Function module vibration

Vibration, frequency range	2...3200 Hz
Vibration, measuring principle	MEMS
Vibration, number of measuring axes	3
Vibration, sampling rate	6400 Hz

Function module vibration acceleration

Vibration acceleration, measuring error RMS	±5 %FS @79.4 Hz
Vibration acceleration, measuring range RMS	0...16 g
Vibration acceleration, non-linearity RMS	±2 %FS @79.4 Hz
Vibration acceleration, resolution RMS	0.006 g @79.4 Hz
Vibration acceleration, statistical evaluation variables [for each measuring axis]	RMS Peak to Peak

Function module vibration velocity

Vibration velocity, evaluation variables [for each measuring axis]	RMS Peak to Peak Mean Standard Deviation Crest Factor Skew Kurtosis
Vibration velocity, measuring error RMS	±5 %FS @79.4 Hz
Vibration velocity, measuring range RMS	0...220 mm/s @79.4 Hz
Vibration velocity, non-linearity RMS	±2 %FS @79.4 Hz
Vibration velocity, resolution RMS	0.42 mm/s @79.4 Hz

IO-Link

IO-Link Profil IDs	N/A
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Interface

Baud rate	COM3 (230,4 kBaud)
Interface	IO-Link 1.1
Interface setting option	Flexible process data configuration Vibration measurement based on ISO 10816-3 Data preprocessing (statistics) Events (pre-alarms and main alarms) Delay times for alarms Search function with LED display (ping)
Process data IN	20 bytes
Process data OUT	0 bytes
Process data cycle min.	10 ms

Material

Housing material	1.4404 stainless steel, Membrane: ePTFE with nylon fleece
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Mechanical data

Dimension	20 x 10 x 32 mm
Mounting part	Screw M3 (2x)
Weight	30 g

Remarks

For additional information, refer to user's guide.
Order accessories separately.
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



Wiring Diagrams

Pin	Color	Signal
1	BN	+24V
3	BU	GND
4	BK	C/Q