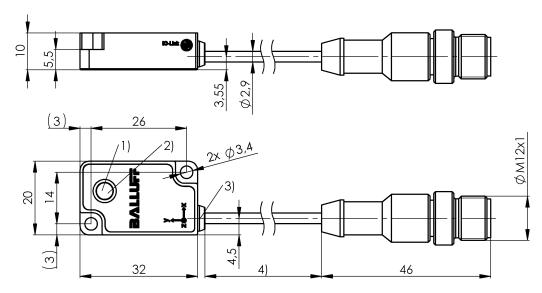
BCM R15E-002-DI00-01,5-S4

Order Code: BCM0002

BYLLUFF



1) Membrane, 2) LED orange, 3) LED green, 4) Cable length











Basic features

Approval/Conformity CE cULus WEEE Function Vibration Velocity Vibration Acceleration Vibration Severity Zone Contact Temperature Relative Humidity Ambient Pressure Sensor Self-Awareness **Condition Monitoring Sensors**

R15

Principle of operation Series

Display/Operation

Display

Run - LED green Communication - LED green, slow flashing (1 Hz) Ping - LED green, asyncronous very fast flashing (4 Hz) and fast flashing (2 Hz)

Event - LED orange, fast flashing (2 Hz)

Electrical connection

Bending radius min., fixed cable 3 x D Bending radius min., flexible cable 5 x D

Cable diameter D 2.9 mm +0.1/-0.05 mm

Conductor cross-section 0.14 mm²

Connection Cable with connector, M12x1-

Male, 3-pin, 1.5 m, PUR

Number of conductors 3 Polarity reversal protected ves Protection against device mix-ups yes **Short-circuit protection**

Electrical data

Current draw max. 10 mA Operating voltage Ub 18...30 VDC **Protection class** Ш Rated operating voltage Ue DC 24 V 1.5 s Ready delay tv max.

Environmental conditions

Ambient temperature 0...70 °C EN 61000-4-2, ESD Severity Level 2 EN 61000-4-3, RFI Severity Level 3 EN 61000-4-4, Burst Severity Level 4 EN 61000-4-6, High-frequency fields Severity Level 3 IP rating IP67 Storage temperature -20...70 °C

Condition Monitoring Sensors

BCM R15E-002-DI00-01.5-S4

Order Code: BCM0002

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

Function module ambient pressure

Function module contact temperature

Contact temperature, measuring error ±2 % FS Contact temperature, measuring 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

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

Function module vibration acceleration

0...16 g

RMS

±2 %FS @79.4 Hz

0.006 g @79.4 Hz

Peak to Peak

±5 %FS @79.4 Hz Vibration acceleration, measuring

error RMS

Vibration acceleration, measuring

range RMS

Vibration acceleration, non-linearity RMS

Vibration acceleration, resolution

RMS

Vibration acceleration, statistical evaluation variables [for each

measuring axis]

Function module vibration velocity

Vibration velocity, evaluation variables [for each measuring axis]

Peak to Peak

BVLLUFF

Mean

Standard Deviation Crest Factor Skew Kurtosis

±5 %FS @79.4 Hz

Vibration velocity, measuring error

RMS

Vibration velocity, measuring range

RMS

Vibration velocity, non-linearity RMS ±2 %FS @79.4 Hz Vibration velocity, resolution RMS

0...220 mm/s @79.4 Hz

0.42 mm/s @79.4 Hz

IO-Link

IO-Link Profil IDs

N/A

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

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.

Subject to change without notice: 279554

Condition Monitoring Sensors

BCM R15E-002-DI00-01,5-S4

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Connector Drawings



Wiring Diagrams

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

Subject to change without notice: 279554