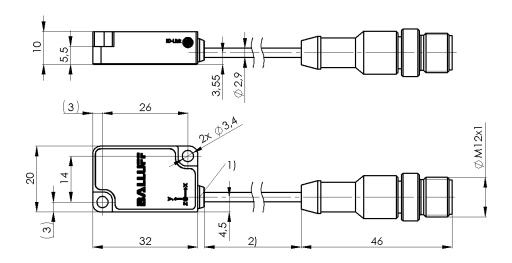
BCM R15E-001-DI00-01,5-S4

Order Code: BCM0001





1) LED green, 2) Cable length









Basic features

CE Approval/Conformity cULus WEEE Function Vibration Velocity Vibration Acceleration Vibration Severity Zone Contact Temperature Sensor Self-Awareness Principle of operation **Condition Monitoring Sensors** Series R15

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)

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 Cable with connector, M12x1-Connection Male, 3-pin, 1.5 m, PUR **Number of conductors** 3 Polarity reversal protected yes Protection against device mix-ups yes **Short-circuit protection** yes

Electrical data

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

Condition Monitoring Sensors

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Environmental conditions

0...70 °C Ambient temperature Severity Level 2 EN 61000-4-2, ESD 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 IP67, IP68, IP69K IP rating Storage temperature -20...70 °C

Function module contact temperature

Contact temperature, measuring error ±2 % FS Contact temperature, measuring 0...70 °C

Contact temperature, non-linearity ±0.75 % FS 0.1 °C Contact temperature, resolution Contact temperature, settling time 5 min

Function module vibration

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

Function module vibration acceleration

0...16 a

RMS

±2 %FS @79.4 Hz

0.006 g @79.4 Hz

Peak to Peak

Vibration acceleration, measuring ±5 %FS @79.4 Hz

error RMS

Vibration acceleration, measuring

Vibration acceleration, non-linearity

Vibration acceleration, resolution

Vibration acceleration, statistical evaluation variables [for each

measuring axis]

Function module vibration velocity

Vibration velocity, evaluation variables [for each measuring axis]

Peak to Peak 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

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.

Condition Monitoring Sensors

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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: 279553