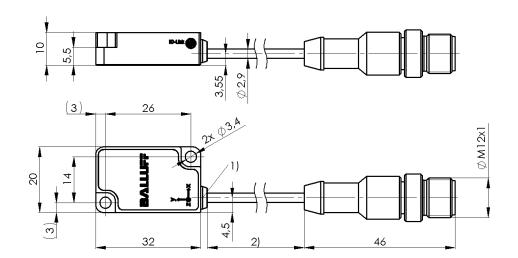
BCM R15E-001-DI00-01,5-S4

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

Display/Operation

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

R15

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

eCl@ss 9.1:

BCM0001_0.2_2021-03-18

ETIM 6.0:

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

BCM R15E-001-DI00-01.5-S4 Order Code: BCM0001



Environmental conditions

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

Function module vibration

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

Function module vibration acceleration

Vibration acceleration, measuring ±5 %FS @79.4 Hz error RMS Vibration acceleration, measuring 0...16 a range RMS Vibration acceleration, non-linearity ±2 %FS @79.4 Hz Vibration acceleration, resolution 0.006 g @79.4 Hz Vibration acceleration, statistical RMS Peak to Peak 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

Skewness Kurtoisis

Vibration velocity, measuring error

±5 %FS @79.4 Hz

RMS

Vibration velocity, measuring range

0...220 mm/s @79.4 Hz

RMS

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

0.42 mm/s @79.4 Hz

Material

Housing material Stainless steel (1.4404)

Mechanical data

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

Output/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

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

BCM R15E-001-DI00-01,5-S4 Order Code: BCM0001



Connector Drawings



Wiring Diagrams

Pin	Color	Signal
1	BN	+24V
3	BU	GND
1	BK	CIO