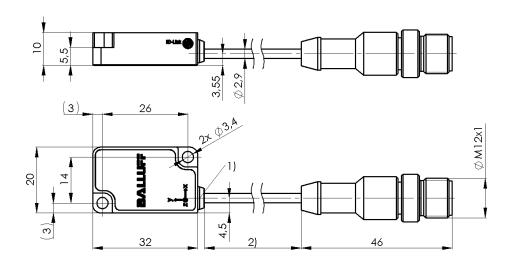
BCM R15E-001-DI00-01,5-S4

Order Code: BCM0001





1) LED green, 2) Cable length











Basic features

Approval/Conformity	CE
	UKCA
	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 mm ²
Connection	Cable with connector, M12x1-
	Male, 3-pin, 1.5 m, PUR
Number of conductors	Male, 3-pin, 1.5 m, PUR 3
Number of conductors Polarity reversal protected	, , , , ,
	3
Polarity reversal protected	3 yes

Electrical data

Current draw max.	10 mA
Operating voltage Ub	1830 VDC
Protection class	III
Rated operating voltage Ue DC	24 V
Ready delay ty 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

Vibration acceleration, measuring ±5 %FS @79.4 Hz

0...16 a

RMS

±2 %FS @79.4 Hz

0.006 g @79.4 Hz

Peak to Peak

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

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	вк	C/Q

Subject to change without notice: 279553