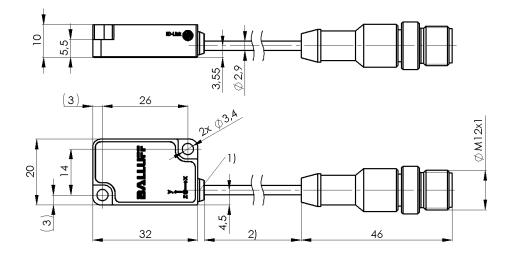
Condition Monitoring Sensors BCM R15E-001-DI00-01,5-S4 Order Code: BCM0001

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1) LED green, 2) Cable length





Basic features

Approval/Conformity Function	CE cULus WEEE 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	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

A
30 VDC

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



Function module vibration velocity

Environmental conditions

Environmental conditions		Function module vibration	Ivelocity
Ambient temperature EN 61000-4-2, ESD EN 61000-4-3, RFI EN 61000-4-4, Burst EN 61000-4-6, High-frequency fields IP rating Storage temperature	070 °C Severity Level 2 Severity Level 3 Severity Level 4 Severity Level 3 IP67, IP68, IP69K -2070 °C	Vibration velocity, evaluation variables [for each measuring axis] Vibration velocity, measuring error	RMS Peak to Peak Mean Standard Deviation Crest Factor Skew Kurtosis ±5 %FS @79.4 Hz
		RMS	
Function module contact t	temperature	Vibration velocity, measuring range RMS	0220 mm/s @79.4 Hz
Contact temperature, measuring erro	r ±2 % FS	Vibration velocity, non-linearity RMS	±2 %FS @79.4 Hz
Contact temperature, measuring range	070 °C	Vibration velocity, resolution RMS	0.42 mm/s @79.4 Hz
Contact temperature, non-linearity	±0.75 % FS		
Contact temperature, resolution	0.1 °C	IO-Link	
Contact temperature, settling time	5 min	IO-Link Profil IDs	N/A
Function module vibration	1	Interface	
Vibration, frequency range	23200 Hz	Baud rate	COM3 (230,4 kBaud)
Vibration, measuring principle	MEMS	Interface	IO-Link 1.1
Vibration, number of measuring axes	3	Interface setting option	Flexible process data
Vibration, sampling rate	6400 Hz		configuration Vibration measurement based on ISO 10816-3
Vibration acceleration, measuring error RMS	±5 %FS @79.4 Hz		Data preprocessing (statistics) Events (pre-alarms and main alarms)
Vibration acceleration, measuring range RMS	016 g		Delay times for alarms Search function with LED display
Vibration acceleration, non-linearity	±2 %FS @79.4 Hz		(ping)
RMS		Process data IN Process data OUT	20 bytes
Vibration acceleration, resolution RMS	0.006 g @79.4 Hz	Process data OUT Process data cycle min.	0 bytes 10 ms
Vibration acceleration, statistical	RMS		
evaluation variables [for each measuring axis]	Peak to Peak	Material	
		Housing material	1.4404 stainless steel
		Mechanical data	
		Dimension	20 x 10 x 32 mm
		Mounting part	Screw M3 (2x)

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

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Connector Drawings



Wiring Diagrams

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