



1) LED green, 2) Cable length



## Basic features

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

## 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 <sup>2</sup>
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

## Display/Operation

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

## Electrical data

Current draw max.	10 mA
Operating voltage U <sub>b</sub>	18...30 VDC
Protection class	III
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	1.5 s

## 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, IP68, IP69K
Storage temperature	-20...70 °C

## Function module contact temperature

Contact temperature, measuring error	±2 % FS
Contact temperature, measuring range	0...70 °C
Contact temperature, non-linearity	±0.75 % FS
Contact temperature, resolution	0.1 °C
Contact temperature, settling time	5 min

## Function module vibration

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

## IO-Link

IO-Link Profil IDs	N/A
--------------------	-----

## 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.

## 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

## Connector Drawings



## Wiring Diagrams

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