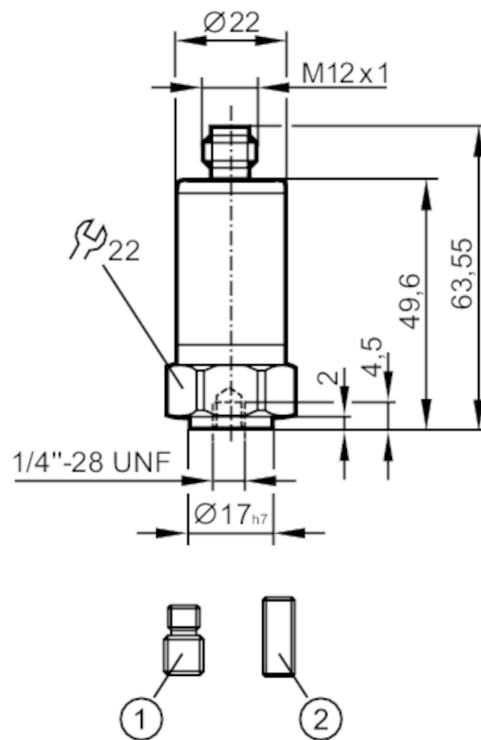


VVB001



Vibration sensor

VIBRATION IO-LINK SWITCH



- 1 set screw 1/4"-28 UNF / M8
2 set screw 1/4"-28 UNF



Product characteristics

Frequency range	[Hz]	2...10000
Measuring principle		capacitive
v-RMS		
Measuring range of vibration	[mm/s]	0...45
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s ²

Application

Application	industrial machines
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Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Type of sensor		Microelectromechanical system (MEMS)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Vibration sensor

VIBRATION IO-LINK SWITCH

Outputs		
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN; (configurable)	
Number of digital outputs	2	
Output function	normally open / closed	
Max. voltage drop switching output DC [V]	2	
Max. current load per output [mA]	100	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Note on setpoint SP	configurable	
Frequency range [Hz]	2...10000	
Measuring principle	capacitive	
Number of measurement axes	1	
v-RMS		
Measuring range of vibration [mm/s]	0...45	
Set point SP [mm/s]	0.2...45	
Reset point rP [mm/s]	0...44.8	
In steps of [mm/s]	0.2	
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s²
Set point SP	0.2...50 g	2...490.3 m/s²
Reset point rP	0...49.8 g	0...488.3 m/s²
In steps of	0.2 g	2 m/s²
Crest		
Measuring range of vibration	1...50	
Set point SP	2...50	
Reset point rP	1...49	
In steps of	1	
Temperature measurement		
Measuring range [°C]	-30...80	
Resolution [°C]	0.1	
Set point SP [°C]	-28...80	
Reset point rP [°C]	-30...78	
In steps of [°C]	2	
Accuracy / deviations		
Accuracy	≤ 4 kHz +/-10 %; ≥ 4...10 kHz: < 3 dB	
Accuracy [K]	± 2,5 K + (0,2 x (Umgebungstemperatur - Oberflächentemperatur))	
Linearity deviation	2 %	



Vibration sensor

VIBRATION IO-LINK SWITCH

Software / programming		
Parameter setting options	Software	
Diagnostic functions	self-test	
Interfaces		
Communication interface	IO-Link	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9: 2013-07	
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	yes	
Required master port class	A	
Process data analog	10	
Process data binary	2	
IO-Link functions (acyclical)	filter for v-RMS, a-RMS, a-Peak; Hysteresis; window; Switch points; switching logic	
Supported DeviceIDs	Type of operation	DeviceID
	Status A (COM2)	1028
	Status B (COM2 / COM3)	1367
Note	For further information please see the IODD PDF file at "Downloads"	
Status A (COM2)		
Transmission type	COM2 (38,4 kBaud)	
Min. process cycle time [ms]	11.6	
Status B (COM2 / COM3)		
Transmission type	COM3 (230,4 kBaud)	
Min. process cycle time [ms]	3.6	
Operating conditions		
Ambient temperature [°C]	-30...80	
Storage temperature [°C]	-30...80	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	2014/30/EU	
	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10...3000 Hz
MTTF [years]	299	
UL approval	Ta	-30...70 °C
	UL approval number	L002
Mechanical data		
Weight [g]	116	
Housing	tubular	
Type of mounting	set screw	
Dimensions [mm]	Ø 22 / L = 63.55	
Material	housing: stainless steel (1.4404 / 316L)	

VVB001



Vibration sensor

VIBRATION IO-LINK SWITCH

Tightening torque	[Nm]	8
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Accessories

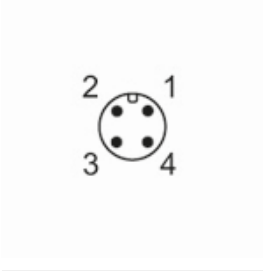
Items supplied	set screw: 1 x (1/4" 28 UNF / M8)
	set screw: 1 x (1/4"28 UNF x 5/8" DIN916)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 20 m



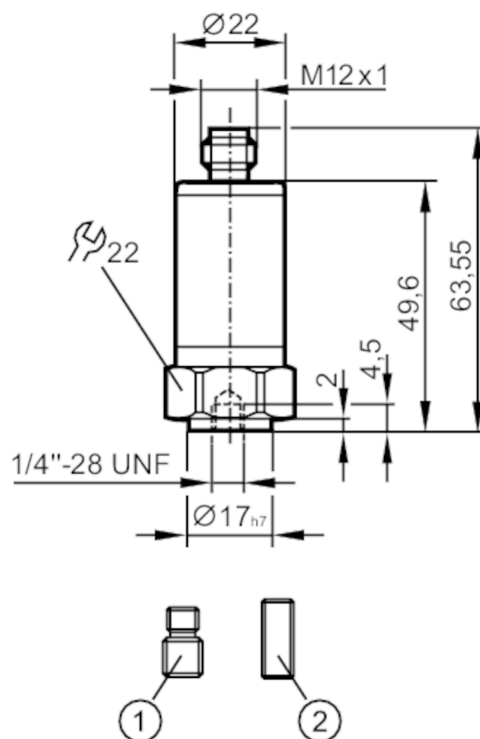
1	L+
2	OUT2
3	L-
4	OUT1 switching output or IO-Link

VVB010



Vibration sensor

VIBRATION IO-LINK SWITCH



- 1 set screw 1/4"-28 UNF / M8
2 set screw 1/4"-28 UNF



Product characteristics

Frequency range	[Hz]	2...10000
Measuring principle		capacitive
v-RMS		
Measuring range of vibration	[mm/s]	0...45
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s ²

Application

Application	Big machines, performance > 300 kW, speed > 600 rpm
-------------	---

Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Type of sensor		Microelectromechanical system (MEMS)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Vibration sensor

VIBRATION IO-LINK SWITCH

Outputs		
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN; (configurable)	
Number of digital outputs	2	
Output function	normally open / closed	
Max. voltage drop switching output DC [V]	2	
Max. current load per output [mA]	100	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Note on setpoint SP	configurable	
Frequency range [Hz]	2...10000	
Measuring principle	capacitive	
Number of measurement axes	1	
v-RMS		
Measuring range of vibration [mm/s]	0...45	
Set point SP [mm/s]	0.2...45	
Reset point rP [mm/s]	0...44.8	
In steps of [mm/s]	0.2	
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s²
Set point SP	0.2...50 g	2...490.3 m/s²
Reset point rP	0...49.8 g	0...488.3 m/s²
In steps of	0.2 g	2 m/s²
Crest		
Measuring range of vibration	1...50	
Set point SP	2...50	
Reset point rP	1...49	
In steps of	1	
Temperature measurement		
Measuring range [°C]	-30...80	
Resolution [°C]	0.1	
Set point SP [°C]	-28...80	
Reset point rP [°C]	-30...78	
In steps of [°C]	2	
Accuracy / deviations		
Accuracy	≤ 4 kHz +/-10 %; ≥ 4...10 kHz: < 3 dB	
Accuracy [K]	± 2,5 K + (0,2 x (Umgebungstemperatur - Oberflächentemperatur))	
Linearity deviation	2 %	



Vibration sensor

VIBRATION IO-LINK SWITCH

Software / programming		
Parameter setting options	Software	
Diagnostic functions	self-test	
Interfaces		
Communication interface	IO-Link	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9: 2013-07	
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	yes	
Required master port class	A	
Process data analog	10	
Process data binary	2	
IO-Link functions (acyclical)	filter for v-RMS, a-RMS, a-Peak; Hysteresis; window; Switch points; switching logic	
Supported DeviceIDs	Type of operation	DeviceID
	Status A (COM2)	1255
	Status B (COM2 / COM3)	1368
Note	For further information please see the IODD PDF file at "Downloads"	
Status A (COM2)		
Transmission type	COM2 (38,4 kBaud)	
Min. process cycle time [ms]	11.6	
Status B (COM2 / COM3)		
Transmission type	COM3 (230,4 kBaud)	
Min. process cycle time [ms]	3.6	
Operating conditions		
Ambient temperature [°C]	-30...80	
Storage temperature [°C]	-30...80	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	2014/30/EU	
	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10...3000 Hz
MTTF [years]	299	
UL approval	Ta	-30...70 °C
	UL approval number	L002
Mechanical data		
Weight [g]	116	
Housing	tubular	
Type of mounting	set screw	
Dimensions [mm]	Ø 22 / L = 63.55	
Material	housing: stainless steel (1.4404 / 316L)	

VVB010



Vibration sensor

VIBRATION IO-LINK SWITCH

Tightening torque	[Nm]	8
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Accessories

Items supplied	set screw: 1 x (1/4" 28 UNF / M8)
	set screw: 1 x (1/4"28 UNF x 5/8" DIN916)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 20 m



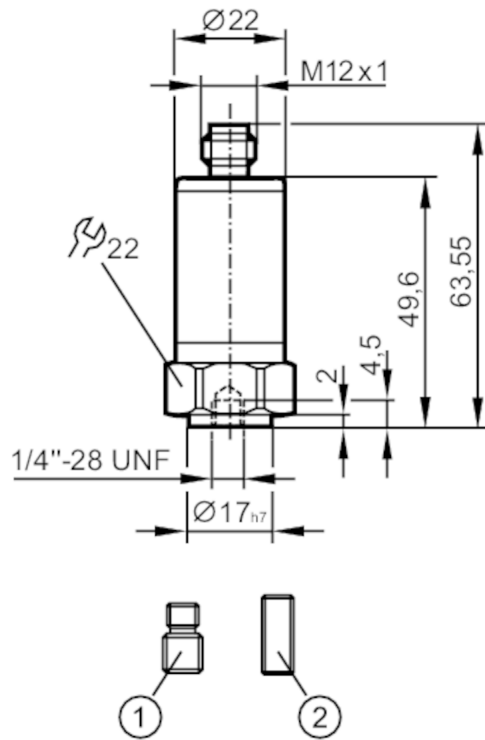
1	L+
2	OUT2
3	L-
4	OUT1 switching output or IO-Link

VVB011



Vibration sensor

VIBRATION IO-LINK SWITCH



- 1 set screw 1/4"-28 UNF / M8
2 set screw 1/4"-28 UNF



Product characteristics

Frequency range	[Hz]	2...10000
Measuring principle		capacitive
v-RMS		
Measuring range of vibration	[mm/s]	0...45
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s ²

Application

Application	Big machines, performance > 300 kW, speed 120...600 rpm
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Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Type of sensor		Microelectromechanical system (MEMS)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Vibration sensor

VIBRATION IO-LINK SWITCH

Outputs		
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN; (configurable)	
Number of digital outputs	2	
Output function	normally open / closed	
Max. voltage drop switching output DC [V]	2	
Max. current load per output [mA]	100	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Note on setpoint SP	configurable	
Frequency range [Hz]	2...10000	
Measuring principle	capacitive	
Number of measurement axes	1	
v-RMS		
Measuring range of vibration [mm/s]	0...45	
Set point SP [mm/s]	0.2...45	
Reset point rP [mm/s]	0...44.8	
In steps of [mm/s]	0.2	
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s²
Set point SP	0.2...50 g	2...490.3 m/s²
Reset point rP	0...49.8 g	0...488.3 m/s²
In steps of	0.2 g	2 m/s²
Crest		
Measuring range of vibration	1...50	
Set point SP	2...50	
Reset point rP	1...49	
In steps of	1	
Temperature measurement		
Measuring range [°C]	-30...80	
Resolution [°C]	0.1	
Set point SP [°C]	-28...80	
Reset point rP [°C]	-30...78	
In steps of [°C]	2	
Accuracy / deviations		
Accuracy	≤ 4 kHz +/-10 %; ≥ 4...10 kHz: < 3 dB	
Accuracy [K]	± 2,5 K + (0,2 x (Umgebungstemperatur - Oberflächentemperatur))	
Linearity deviation	2 %	



Vibration sensor

VIBRATION IO-LINK SWITCH

Software / programming		
Parameter setting options	Software	
Diagnostic functions	self-test	
Interfaces		
Communication interface	IO-Link	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9: 2013-07	
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	yes	
Required master port class	A	
Process data analog	10	
Process data binary	2	
IO-Link functions (acyclical)	filter for v-RMS, a-RMS, a-Peak; Hysteresis; window; Switch points; switching logic	
Supported DeviceIDs	Type of operation	DeviceID
	Status A (COM2)	1256
	Status B (COM2 / COM3)	1371
Note	For further information please see the IODD PDF file at "Downloads"	
Status A (COM2)		
Transmission type	COM2 (38,4 kBaud)	
Min. process cycle time [ms]	11.6	
Status B (COM2 / COM3)		
Transmission type	COM3 (230,4 kBaud)	
Min. process cycle time [ms]	3.6	
Operating conditions		
Ambient temperature [°C]	-30...80	
Storage temperature [°C]	-30...80	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	2014/30/EU	
	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10...3000 Hz
MTTF [years]	299	
UL approval	Ta	-30...70 °C
	UL approval number	L002
Mechanical data		
Weight [g]	116.5	
Housing	tubular	
Type of mounting	set screw	
Dimensions [mm]	Ø 22 / L = 63.55	
Material	housing: stainless steel (1.4404 / 316L)	

VVB011



Vibration sensor

VIBRATION IO-LINK SWITCH

Tightening torque	[Nm]	8
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Accessories

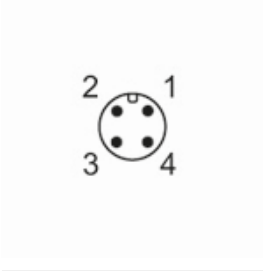
Items supplied	set screw: 1 x (1/4" 28 UNF / M8)
	set screw: 1 x (1/4"28 UNF x 5/8" DIN916)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 20 m



1	L+
2	OUT2
3	L-
4	OUT1 switching output or IO-Link

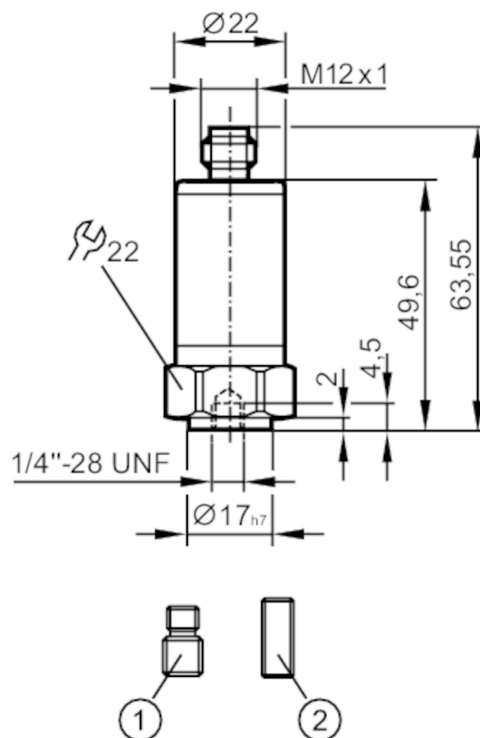
VVB020



Vibration sensor

VIBRATION IO-LINK SWITCH

the hardware version BC has a temporarily changed ambient temperature range



- 1 set screw 1/4"-28 UNF / M8
2 set screw 1/4"-28 UNF



Product characteristics

Frequency range	[Hz]	2...10000
Measuring principle		capacitive

v-RMS

Measuring range of vibration [mm/s]	0...45
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a-Peak / a-RMS

Measuring range of vibration	0...50 g	0...490.3 m/s ²
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Application

Application	medium-sized machines, power < 300 kW, rotational speed > 600 rpm
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Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Type of sensor		Microelectromechanical system (MEMS)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
------------------------------	------------------------------



Vibration sensor

VIBRATION IO-LINK SWITCH

Outputs		
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN; (configurable)	
Number of digital outputs	2	
Output function	normally open / closed	
Max. voltage drop switching output DC [V]	2	
Max. current load per output [mA]	100	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Note on setpoint SP	configurable	
Frequency range [Hz]	2...10000	
Measuring principle	capacitive	
Number of measurement axes	1	
v-RMS		
Measuring range of vibration [mm/s]	0...45	
Set point SP [mm/s]	0.2...45	
Reset point rP [mm/s]	0...44.8	
In steps of [mm/s]	0.2	
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s²
Set point SP	0.2...50 g	2...490.3 m/s²
Reset point rP	0...49.8 g	0...488.3 m/s²
In steps of	0.2 g	2 m/s²
Crest		
Measuring range of vibration	1...50	
Set point SP	2...50	
Reset point rP	1...49	
In steps of	1	
Temperature measurement		
Measuring range [°C]	-30...80	
Resolution [°C]	0.1	
Set point SP [°C]	-28...80	
Reset point rP [°C]	-30...78	
In steps of [°C]	2	
Accuracy / deviations		
Accuracy	≤ 4 kHz +/-10 %; ≥ 4...10 kHz: < 3 dB	
Accuracy [K]	± 2,5 K + (0,2 x (Umgebungstemperatur - Oberflächentemperatur))	
Linearity deviation	2 %	



Vibration sensor

VIBRATION IO-LINK SWITCH

Software / programming		
Parameter setting options	Software	
Diagnostic functions	self-test	
Interfaces		
Communication interface	IO-Link	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9: 2013-07	
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	yes	
Required master port class	A	
Process data analog	10	
Process data binary	2	
IO-Link functions (acyclical)	filter for v-RMS, a-RMS, a-Peak; Hysteresis; window; Switch points; switching logic	
Supported DeviceIDs	Type of operation	DeviceID
	Status A (COM2)	1257
	Status B (COM2 / COM3)	1369
Note	For further information please see the IODD PDF file at "Downloads"	
Status A (COM2)		
Transmission type	COM2 (38,4 kBaud)	
Min. process cycle time [ms]	11.6	
Status B (COM2 / COM3)		
Transmission type	COM3 (230,4 kBaud)	
Min. process cycle time [ms]	3.6	
Operating conditions		
Ambient temperature [°C]	-30...80	
Storage temperature [°C]	-30...80	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	2014/30/EU	
	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10...3000 Hz
MTTF [years]	299	
UL approval	Ta	-30...60 °C
	UL approval number	L002
Mechanical data		
Weight [g]	116.5	
Housing	tubular	
Type of mounting	set screw	
Dimensions [mm]	Ø 22 / L = 63.55	
Material	housing: stainless steel (1.4404 / 316L)	

VVB020



Vibration sensor

VIBRATION IO-LINK SWITCH

Tightening torque	[Nm]	8
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Accessories

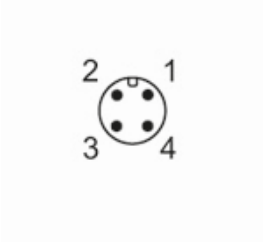
Items supplied	set screw: 1 x (1/4" 28 UNF / M8)
	set screw: 1 x (1/4"28 UNF x 5/8" DIN916)

Remarks

Notes	the hardware version BC has a temporarily changed ambient temperature range
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 20 m



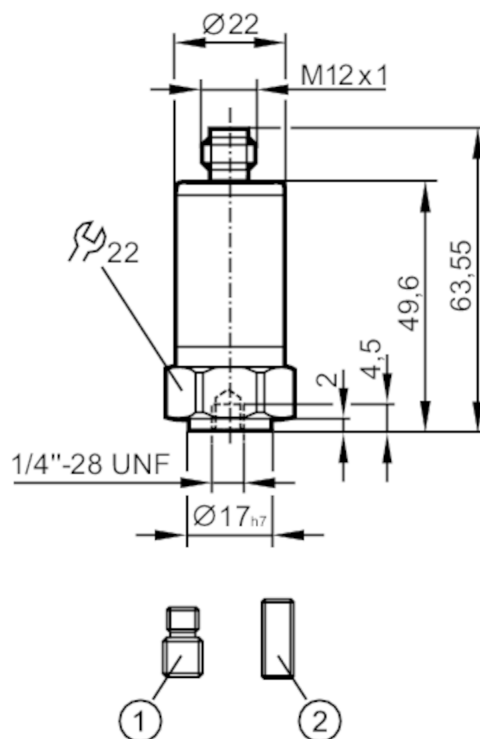
1	L+
2	OUT2
3	L-
4	OUT1 switching output or IO-Link

VVB021



Vibration sensor

VIBRATION IO-LINK SWITCH



- 1 set screw 1/4"-28 UNF / M8
2 set screw 1/4"-28 UNF



Product characteristics

Frequency range	[Hz]	2...10000
Measuring principle		capacitive
v-RMS		
Measuring range of vibration	[mm/s]	0...45
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s ²

Application

Application	medium-sized machines, power < 300 kW, rotational speed 120...600 rpm
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Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Type of sensor		Microelectromechanical system (MEMS)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Vibration sensor

VIBRATION IO-LINK SWITCH

Outputs		
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN; (configurable)	
Number of digital outputs	2	
Output function	normally open / closed	
Max. voltage drop switching output DC [V]	2	
Max. current load per output [mA]	100	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Note on setpoint SP	configurable	
Frequency range [Hz]	2...10000	
Measuring principle	capacitive	
Number of measurement axes	1	
v-RMS		
Measuring range of vibration [mm/s]	0...45	
Set point SP [mm/s]	0.2...45	
Reset point rP [mm/s]	0...44.8	
In steps of [mm/s]	0.2	
a-Peak / a-RMS		
Measuring range of vibration	0...50 g	0...490.3 m/s²
Set point SP	0.2...50 g	2...490.3 m/s²
Reset point rP	0...49.8 g	0...488.3 m/s²
In steps of	0.2 g	2 m/s²
Crest		
Measuring range of vibration	1...50	
Set point SP	2...50	
Reset point rP	1...49	
In steps of	1	
Temperature measurement		
Measuring range [°C]	-30...80	
Resolution [°C]	0.1	
Set point SP [°C]	-28...80	
Reset point rP [°C]	-30...78	
In steps of [°C]	2	
Accuracy / deviations		
Accuracy	≤ 4 kHz +/-10 %; ≥ 4...10 kHz: < 3 dB	
Accuracy [K]	± 2,5 K + (0,2 x (Umgebungstemperatur - Oberflächentemperatur))	
Linearity deviation	2 %	



Vibration sensor

VIBRATION IO-LINK SWITCH

Software / programming		
Parameter setting options	Software	
Diagnostic functions	self-test	
Interfaces		
Communication interface	IO-Link	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9: 2013-07	
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode	yes	
Required master port class	A	
Process data analog	10	
Process data binary	2	
IO-Link functions (acyclical)	filter for v-RMS, a-RMS, a-Peak; Hysteresis; window; Switch points; switching logic	
Supported DeviceIDs	Type of operation	DeviceID
	Status A (COM2)	1258
	Status B (COM2 / COM3)	1370
Note	For further information please see the IODD PDF file at "Downloads"	
Status A (COM2)		
Transmission type	COM2 (38,4 kBaud)	
Min. process cycle time [ms]	11.6	
Status B (COM2 / COM3)		
Transmission type	COM3 (230,4 kBaud)	
Min. process cycle time [ms]	3.6	
Operating conditions		
Ambient temperature [°C]	-30...80	
Storage temperature [°C]	-30...80	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	2014/30/EU	
	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10...3000 Hz
MTTF [years]	299	
UL approval	Ta	-30...70 °C
	UL approval number	L002
Mechanical data		
Weight [g]	116.2	
Housing	tubular	
Type of mounting	set screw	
Dimensions [mm]	Ø 22 / L = 63.55	
Material	housing: stainless steel (1.4404 / 316L)	

VVB021



Vibration sensor

VIBRATION IO-LINK SWITCH

Tightening torque	[Nm]	8
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Accessories

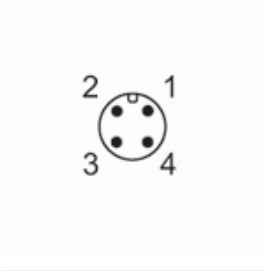
Items supplied	set screw: 1 x (1/4" 28 UNF / M8)
	set screw: 1 x (1/4"28 UNF x 5/8" DIN916)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 20 m



1	L+
2	OUT2
3	L-
4	OUT1 switching output or IO-Link