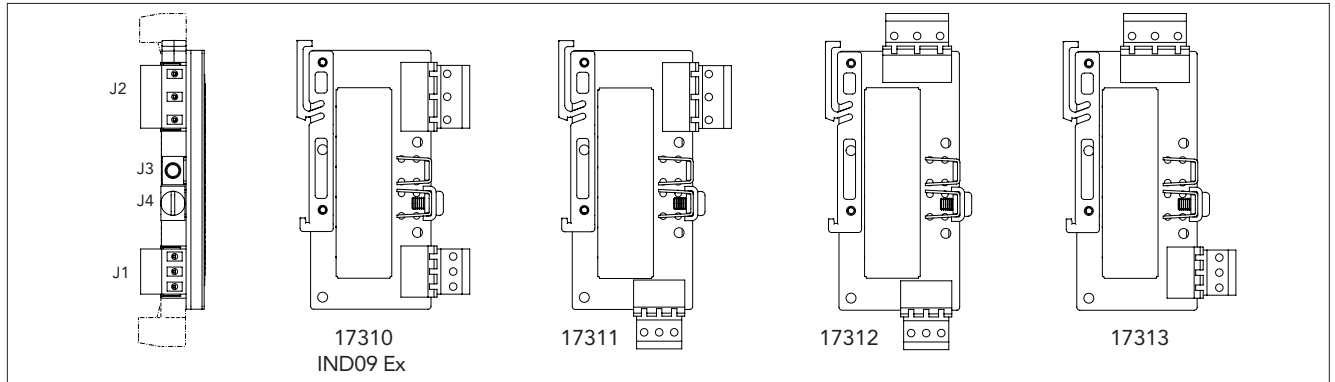


Vibration Transducer Ex Interface



The Ex interfaces series SPM 1731X are interfaces (Associated Apparatus) for vibration transducers (I.S. Equipment). The transducer interface enables connection of an unspecified non-hazardous area measuring instrument to an intrinsically safe transducer located in explosive areas. Any suitable vibration transducer with matching IS parameters can be used together with the transducer interface.

The transducer interface has extremely low capacitance and are carefully shielded to obtain maximum performance also in disturbed (EMC) environments.

Screw holes or a DIN-rail clip make mounting easy and flexible. Connectors are available for front or top/bottom cabling. A front mounted earth rail enables easy mounting of multiple interfaces. The transducer interface can be installed in the non-hazardous area or in zone 2 (in a suitable enclosure).

Safety

This interface must only be installed, used and maintained by competent personnel. Such personnel shall have undergone training, which included instruction on the various types of protection and installation practices, the relevant rules and regulations, and on the general principles of area classification. Appropriate refresher training shall be given on a regular basis (See EN 60079-17).

The installation, use and maintenance of this interface must comply with the appropriate European, national and local regulations, which may include reference to the IEC standards IEC60079-14, IEC60079-17 and IEC60079-19. In addition, particular industries or end users may have specific requirements relating to the safety (or health) and these requirements should also be met. Instructions and specifications issued by the manufacturer must be followed.

The VIB Transducer Ex Interface should normally be connected to isolated transducers only. However, transducers not isolated from earth can be connected if a bonding conductor is used between the transducer and the Interface IS Earth. Earth bonding should receive careful consideration by a competent person and particular care should be taken where the requirements of EPL Ga (zone 0) have to be met. Please consult the transducer installation instructions, certificates, IEC60079-14 and relevant regulations (local or national) for further details. The interface must not be used in a chemical environment that is known to damage plastics or electric components.

Marking

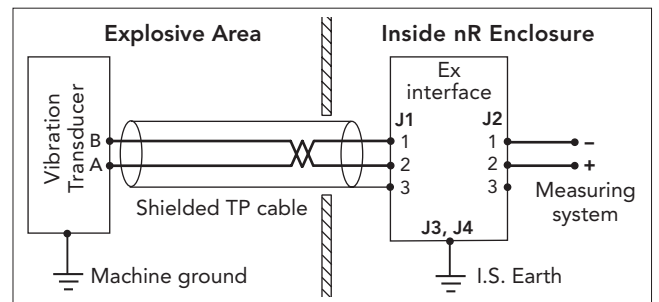


I (M1) [Ex ia Ma] I
 II (1) GD [Ex ia Ga] IIC, [Ex ia Da] IIIC
 II 3(1) G Ex ec [ia Ga] IIC T4 Gc

CML14ATEX2077X, CML14ATEX4078X
 CML 21UKEX2598X, CML 21UKEX4597X,
 IECEx CML 14.0031X. (Ta: -40°C to +70°C)

Electrical IS parameters

$U_o = 26.3V$, $I_o = 92.3mA$, $P_o = 607mW$, $C_i = 0nF$, $L_i = 0mH$



Technical specifications

Approvals:	CE, UKCA, ATEX, IECEx, UKEX
Mounting:	on DIN rail or M3 screw mounting
Connectors:	screw terminals, front or top/bottom
Enclosure:	IP54
Ambient temperature, operating and storage:	-40 to +70 °C
Dimensions:	approx. 90 x 58 x 19 mm
Weight:	90 grams

Part numbers

17310	VIB Transducer Ex interface, front/front connectors
17311	VIB Transducer Ex interface, front/bottom connectors
17312	VIB Transducer Ex interface, top/bottom connectors
17313	VIB Transducer Ex interface, top/front connectors
IND09 Ex	VIB Transducer Ex Interface 17310 incl. wiring for Intellinova Compact Ex or Intellinova Parallel EN Ex

Approved accessories

17474	I.S. Earth bar
Screw mounting:	
83271	Spacer M3 x 14
82367	Screw MRTX M3 x 10
82027	Washer BRB 3.2 x 6 x 0.5
Cable lug:	
93542	M4, 2 – 5 mm ² (10-14 AWG), non-insulated
93543	M4, 3 – 5 mm ² (10-12 AWG), insulated (yel)
93544	M4, 1 – 2.5 mm ² (14-16 AWG), non-insulated
93545	M4, 1.5 – 2.5 mm ² (14-16 AWG), insulated (blu)
I.S. Earth cable:	
90601	4 mm ² (grn/yel, 500VAC, 700VDC, 0.1mm, -40/+90°C)
90602	1.5 mm ² (grn/yel, 500VAC, 700VDC, 0.1mm, -40/+90°C)

Spare parts

93548	Pluggable screw terminal, 3 pos. 5 mm (for J1)
93547	Pluggable screw terminal, 3 pos. 7.62mm (for J2)
83267	Saddle type pressure plate (for J3, J4)
83269	Screw M4x8 (for J3, J4)
83270	Washer for 83269



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