



JB 118

Junction Box

FEATURES

- From the Vibro-Meter® product line
- Die-cast polyester enclosure
- Fully insulated and corrosion resistant
- Protection against mechanical damage, water and dust: IP65 protection rating
- ⚠ ➤ Certified for use in potentially explosive atmospheres only with Ex i certified products from Meggitt Sensing Systems' Vibro-Meter® product line



DESCRIPTION

The JB 118 junction box is suitable for connecting the integral cable of a proximity transducer, for example, from the Vibro-Meter TQ xxx series, and an extension cable.

It is recommended to use a permanently installed junction box to make and protect the connection between a transducer and its extension cable, which goes to a remote signal conditioner.

The cables are fed into the junction box via stuffing glands. The cable ends are then screwed to terminal blocks, to easily create a permanent connection.

This polyester junction box is approved for use in explosive atmospheres (Ex) and offers protection against the possible splashing of oil, water or corrosive medium encountered in severe industrial environments (such as offshore or petrochemical applications).



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SPECIFICATIONS

GENERAL

Material	: Polyester reinforced with glass fibre
Cover	: Sealed by neoprene gasket
Colour	: Black (RAL 9011) with blue plate (Ex approved)
Mounting	: M4 x 16 mm Allen head screws
Dimensions	: See the Mechanical drawing

INPUT / OUTPUT STUFFING GLANDS

Material	: Nickel-plated brass
Seal	: Viton®

ENVIRONMENTAL

Protection rating	: IP65 according to DIN 40050
Temperature range	: -40°C to +100°C
Impact resistance	: 4 mJ/mm ² (DIN 53453)
Surface resistivity	: < 10 ⁹ Ohm (DIN 53482)
Chemical resistance	: Good resistance to sea water, acids, alkaline solutions, solvents, gasoline and oils.
Flammability	: Self extinguishing, UL94V-0

Explosive atmospheres

Available in Ex approved versions for use in hazardous locations

Industrial housing

Type of protection Ex e: increased safety		
Europe	EC type examination certificate	II 2 G (Zones 1, 2) Ex e II

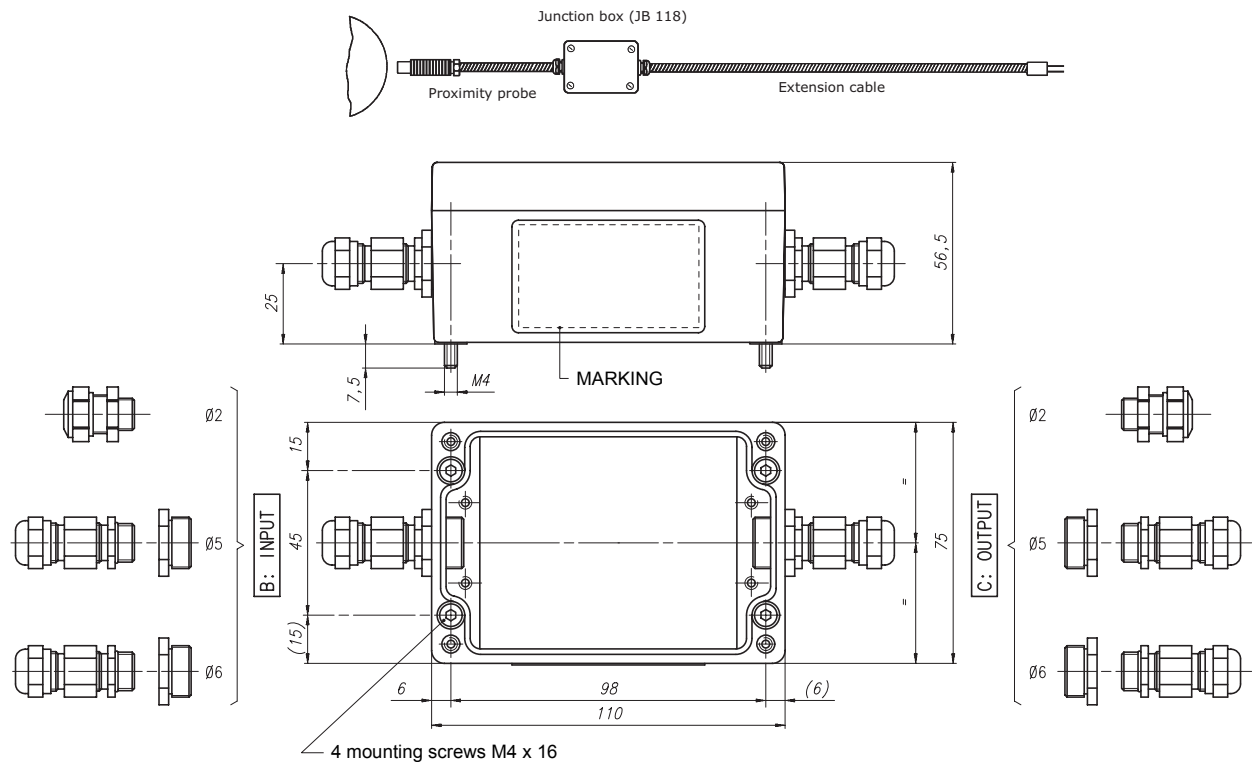
Surface resistivity for Ex version : < 10⁹ Ω (DIN 53482)

Stuffing glands

Type of protection Ex e: increased safety		
Europe	EC type examination certificate	II 2 G/D (Zones 1, 2) Ex e II

 For specific parameters of the mode of protection concerned and special conditions for safe use, please refer to the certificates that are available from Meggitt SA on demand.

MECHANICAL DRAWING



Note: all dimensions in mm unless otherwise stated.

ORDERING INFORMATION

Ordering Number: 823 - 118 - 000 - 012 - B1 - C1

INPUT CABLE FITTING (B)		
Cable gland M12 x 1.5 for cable Ø2.5 - Ø3.6 mm	02	*
Cable gland combi M12 x 1.5 for cable Ø2 - Ø4 mm + protection tube Ø6 - Ø8 mm	05	
Cable gland combi M12 x 1.5 for cable Ø0.7 - Ø2.7 mm + protection tube Ø5 - Ø7 mm	06	

OUTPUT CABLE FITTING (C)		
Cable gland M12 x 1.5 for cable Ø2.5 - Ø3.6 mm	02	*
Cable gland combi M12 x 1.5 for cable Ø2 - Ø4 mm + protection tube Ø6 - Ø8 mm	05	
Cable gland combi M12 x 1.5 for cable Ø0.7 - Ø2.7 mm + protection tube Ø5 - Ø7 mm	06	

* Code 02: selecting option B "02" allows you to feed through a connector of up to 7.2 mm diameter.

Headquartered in the UK, Meggitt PLC is a global engineering group specializing in extreme environment components and smart sub-systems for aerospace, defence and energy markets.

Meggitt Sensing Systems is the operating division of Meggitt specializing in sensing and monitoring systems, which has operated through its antecedents since 1927 under the names of ECET, Endevco, Ferroperm Piezoceramics, Lodge Ignition, Sensorex, Vibro-Meter and Wilcoxon Research. Today, these operations are integrated under one strategic business unit called Meggitt Sensing Systems, headquartered in Switzerland and providing complete systems, using these renowned brands, from a single supply base.

The Meggitt Sensing Systems facility in Fribourg, Switzerland was formerly known as Vibro-Meter SA, but is now Meggitt SA. This site produces a wide range of vibration and dynamic pressure sensors capable of operation in extreme environments, leading-edge microwave sensors, electronics monitoring systems and innovative software for aerospace and land-based turbo-machinery.



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In this publication, a dot (.) is used as the decimal separator and thousands are separated by spaces. Example : 12345.67890.

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Meggitt Sensing Systems has offices in more than 30 countries. For a complete list, please visit our website.

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