1-B6782-190

EExe GRP Junction Box for Tank Roof

General

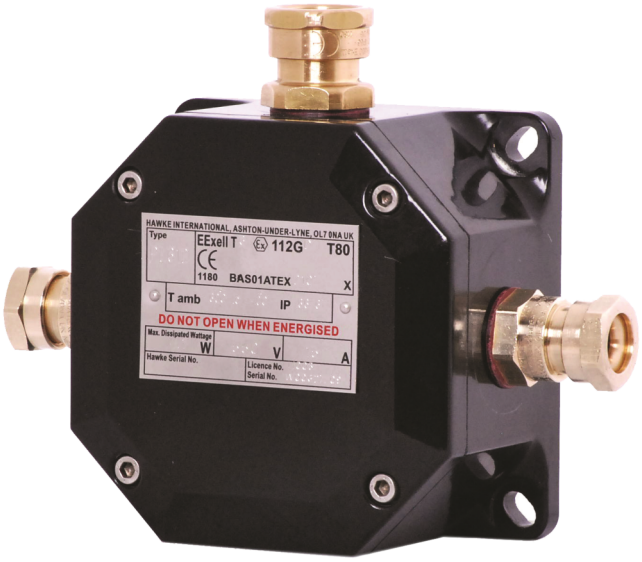
The 1-B6782-190 is a FLP junction box for installation on tank roofs. It is supplied with three M20 cable glands, and allows for electrical connection between the retractable cable and the linear heat detection (LHD) cable.

Application (LHD)

One significant application for linear heat sensor cable is floating roof storage tanks. As installation in this application provides significant challenges, the 1-B6782-190 junction box helps to simplify the installation.

On a floating roof tank the roof itself is designed to move up and down as the tank is filled or emptied, preventing any vapour space in the tank. The difficulty is maintaining an electrical connection between the top of the tank and the moving tank roof.

This junction box is installed on the tank roof allowing termination of the sensor cable which runs around the rim seal of the floating roof. Three cable glands are provided which allow electrical connection from the junction box on the tank top as well as termination of both ends of the sensor cable.



Details

- Increased safety Exe Dual Certified
- Flame retardant to IEC 92.1 Clause 2.38
- High ingress protection rating
- Suitable for use in Zone 1, 2, 21 and 22 applications
- Supports M20 cable glands
- Supplied with: - 3 x Exd IP66 rated brass cable glands (M20) - 2 x Fibre washers - 3 x Lock nuts (M20) - 4 x Exd cable connectors - 1 x Exd earth connector

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Technical specifications

Electrical

Terminals	4 x 2.5 mm

Physical

Physical dimensions	120 x 120 x 74 mm (W x H x D)
Net weight	800 g
Colour	Black
Cable entries	3 x M20
Material (body)	Glass reinforced polyester

Environmental

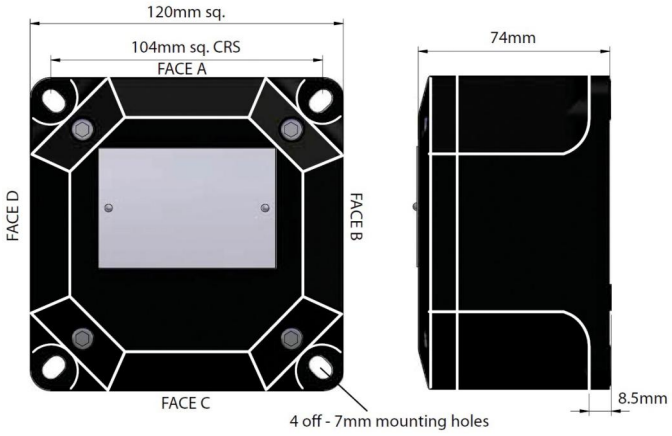
Operating temperature	-60 to +75°C
Environment	Exd, Indoor, Outdoor
IP rating	IP66/IP67 to IEC/EN 60529
Deluge protection	DTS01
Temperature class / ambient	T6 40°C

Regulatory

Standards	Baseefa06ATEX0117X

Mechanical

Fixing holes	4 x 7 mm @ 102 mm² CRS
Cable size (outer sheath cable dia)	2 x 3.2 to 8 mm (outer sheath cable dia) 1 x 10 to 14.3mm



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