

8102/22-31 Art. No. 132989



- Small, robust Ex e enclosure for distributing electrical energy
- IP66 degree of protection
- Equipped with 4 mantle terminals and 1 PE connection
- Available with plastic semi-glands or cable glands

WebCode **8102A**



R. STAHL junction boxes from series 8102 are small Ex e enclosures for conducting and distributing electrical energy in hazardous areas. They are made from glass-fibre-reinforced polyester resin and are therefore extremely robust. The junction box has 5 mantle terminals, whereby one is used as a PE connection point. The cable dia. range of the mantle terminals is 2 x 4 mm².

Technical Data

Explosion Protection

Scope of validity	IECEX European Union (ATEX)
Application range (zones)	1 2 21 22
IECEX gas certificate	IECEX PTB 15.0010
IECEX gas explosion protection	Ex ia ib IIC T6 Gb
IECEX dust certificate	IECEX PTB 15.0010
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	PTB 01 ATEX 1136
ATEX gas explosion protection	II 2 G Ex ia ib IIC T6 Gb
ATEX dust certificate	PTB 01 ATEX 1136
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), IECEX (PTB), Taiwan (ITRI)
Explosion protection note	For product label, see scope of validity.

Electrical Data

Rated operational voltage AC	0 – 60 V
Rated operational current	10 A (T6)

Ambient Conditions

Ambient temperature	-50 °C ... +70 °C (T6)
Ambient temperature	-58°F ... +158°F (T6)

Mechanical Data

IP degree of protection (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Silicone-free	No

8102/22-31 Art. No. 132989

Mechanical Data

Connection cross-section	2.5 mm ²
Permissible number of conductors per clamping unit, solid	Mantle terminal M7 x 0.75 Conductor cross-section 1.5 mm ² : Number of conductors min. 1, max. 4 Conductor cross-section 2.5 mm ² : Number of conductors min. 1, max. 2
Permissible number of conductors per clamping unit, finely stranded prepared, core end sleeve crimped	Mantle terminal M7 x 0.75 Conductor cross-section 1.5 mm ² : Number of conductors min. 1, max. 3 Conductor cross-section 2.5 mm ² : Number of conductors min. 1, max. 2
Permissible number of conductors per clamping unit, finely stranded unprepared	Mantle terminal M7 x 0.75 Conductor cross-section 1.5 mm ² : Number of conductors min. 1, max. 3 Conductor cross-section 2.5 mm ² : Number of conductors min. 1, max. 2
Permissible number of conductors per clamping unit note	All conductors of a terminal must have the same cross section and be made of the same material.
Cover	Screw-on cover
Width	71 mm
Width, inches	2.8 in
Height	116 mm
Height, inches	4.57 in
Depth	45 mm
Depth, inches	1.77 in
Weight	0.3 kg
Weight	0.66 lb

Mounting / Installation

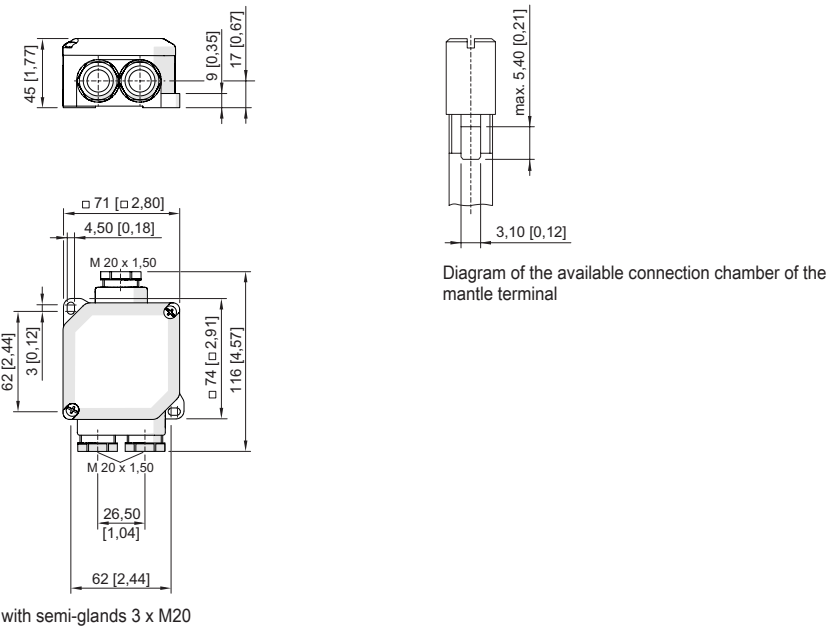
Tightening torque	1.4 Nm
Tightening torque lbf in	12.4 lbf in

Components

Entry 1	3 x
Entry 1 type	Semi-gland
Entry 1	M20
Entry 1 terminal area	6.5 – 14 mm
Metal entry possible 1	No
Type of terminals 1	5 x Mantle terminal 4 mm ²

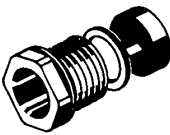
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories

Semi-gland



8102 semi-gland 3 x M20

Art. No.

140474

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.