

8102/21-42-C1151 Art. No. 132979



- 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

MY R. STAHL 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

Area of application	IECEX European Union (ATEX)
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 15.0010
IECEX gas explosion protection	Ex eb IIC T6 / T5 Gb
IECEX dust certificate	IECEX PTB 15.0010
IECEX dust explosion protection	Ex tb IIIC T80 °C / T90 °C Db
ATEX gas certificate	PTB 01 ATEX 1136
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC T6 / T5 Gb
ATEX dust certificate	PTB 01 ATEX 1136
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T90 °C Db
Certificates	ATEX (PTB), IECEX (PTB)
Declaration of conformity	ATEX (EUK), Declaration of Conformity (ATEX)
Explosion protection note	For product label, see area of application.

Electrical Data

Rated operational voltage AC	0 ... 690 V
Rated operational current	16 A (T6) 25 A (T5)

Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +70 °C (T5)
Ambient temperature	-40 °F ... +104 °F (T6) -40 °F ... +158 °F (T5)

Mechanical Data

IP degree of protection (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey

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Mechanical Data

Silicone-free	No
Connection cross-section	4 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	163 mm
Height in inches	6.42 in
Depth	45 mm
Depth in inches	1.77 in
Weight	330 g
Weight	0.73 lb

Mounting / Installation

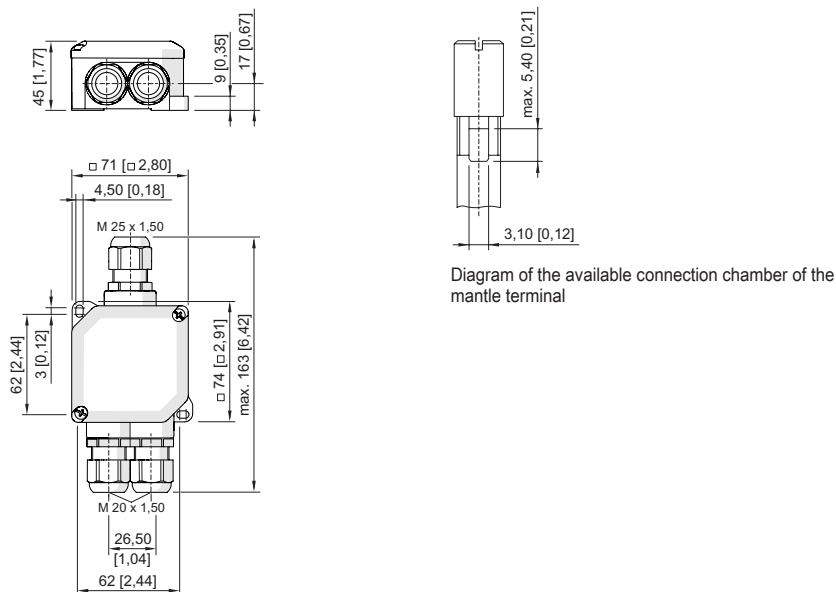
Tightening torque	1.4 Nm
Tightening torque lbf in	12.4 lbf in

Components

Entry 1	2 x 8161/7-M20-1304
Entry 1 type	Polyamide cable gland
Entry 1	M20 x 1.5
Entry 1 clamping range	4 – 13 mm
Entry 1 clamping range, inch	0.16 – 0.51 in
Metal entry possible 1	No
Entry 2	1 x 8161/7-M25-1707
Entry 2 type	Polyamide cable gland
Entry 2	M25 x 1.5
Entry 2 clamping range	7 – 17 mm
Entry 2 clamping range, inch	0.28 – 0.67 in
Metal entry possible 2	No
Entry 3	1 x 8290/3-M20 provided separately M20 x 1,5
Entry 3 type	Polyamide stopping plug
Entry 3	M20 x 1.5
Metal entry possible 3	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



with cable glands 2 x M20, 1 x M25

Accessories

Plastic cable gland		Art. No.
	8161/7-M20-1304, Ex e Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm Lot size 50 pieces	239156
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157
Stopping plug		Art. No.
	8290/3-M20 Plastic, M20 x 1.5 Lot size 1 piece	143522

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.