Installation equipment
Ex e junction box

8102/21-32 Art. No. 218559

- 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	Ⓔx II 2 G Ex eb IIC T6 / T5 Gb
ATEX dust certificate	PTB 01 ATEX 1136
ATEX dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80 °C / T90 °C Db
Certificates	ATEX (PTB), IECEx (PTB)
Declaration of Conformity	ATEX (EUK), ATEX (Simple apparatus), Declaration of Conformity (ATEX)
Explosion protection note	For product label, see scope of validity.
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	
Degree of protection IP (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 mm²
Permissible number of conductors per clamping unit, solid	Mantle terminal M7 x 0.75 Conductor cross-section 1.5 mm²: Number of conductors min. 1, max. 4 Conductor cross-section 2.5 mm²: 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 mm²: Number of conductors min. 1, max. 3 Conductor cross-section 2.5 mm²: 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 mm²: Number of conductors min. 1, max. 3 Conductor cross-section 2.5 mm²: 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	161 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	3 x 8161/7-M20-1304
Entry 1 type	Polyamide cable gland, black
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
Type of terminals 1	5 x Mantle terminal 4 mm²

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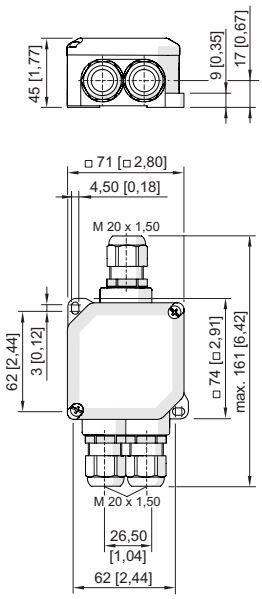
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



with cable glands 3 x M20

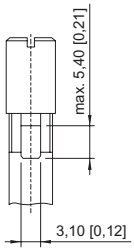


Diagram of the available connection chamber of the mantle terminal

Accessories

Cable gland made of plastic		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

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.