

Junction Boxes

Series 8102

www.stahl.de



- > Robust enclosure of glass fibre reinforced polyester resin
- > Equipped with 4 sheath terminals and 1 PE connection
- > Terminal capacity: 2 x 4 mm², single-wire
- > Degree of protection IP66



10072E00

The junction boxes Series 8102 are used to transport and distribute electrical energy in areas subject to explosion hazards. The robust enclosures made of glass fibre reinforced polyester resin are equipped with four sheath terminals and a PE connection.



	ATEX					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

WebCode 8102A

Junction Boxes

Series 8102

Selection Table

Version	Description	Order number	Weight kg
 02220E00	3 x M20 x 1.5 semi gland	Ex e 8102/21-31	0.278
		Ex i 8102/22-31	0.300
 01599E00	3 x M20 x 1.5 cable gland	Ex e 8102/21-32-C995	0.200
	2x M20 x 1.5 cable gland, 1 x M25 x 1.5 cable gland	Ex e 8102/21-42-C1151	0.330
	2 x M20 x 1.5 cable gland, 1 x M20 x 1.5 stopping plug	Ex e 8102/21-32-C1013	0.100




E3

Explosion Protection


Marking

Europe (ATEX)

Gas explosion protection

Ex e:  II 2 G Ex e II T6 (Ta = - 20 ... + 75 °C)
 II 2 G Ex e II T5 (Ta = - 20 ... + 55 °C)
 Ex i:  II 2 G Ex ia/ib II T6 (Ta = - 20 ... + 75 °C)

Dust explosion protection

 II 2 D IP66 T80°C, T95°C

Certificates

Europe (ATEX)

PTB 01 ATEX 1136

Other certificates

Ukraine (ISCVE), Belarus (Gospromnadzor)

Technical Data

Electrical data

Rated operational voltage

690 V

Rated operational current

max. 27 A

Environmental conditions

Ambient temperature

see explosion protection data
 Ex e version with semi glands: - 50 ... + 40 °C
 Ex i version with semi glands: - 50 ... + 75 °C
 Ex e version with cable glands: - 40 ... + 40 °C
 Ex i version with cable glands: - 40 ... + 75 °C

Mechanical data

Degree of protection

IP66

Enclosure material

Polyester resin, glass fibre-reinforced

Cover fixing

Stainless steel cheese-head screw M4

Terminals

Max. number

4 terminals and 1 PE connection

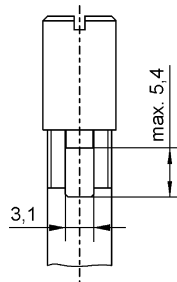
Max. conductor
cross-section

for 2 x 4 mm², single-wire

Terminal types

Sheath terminal

Layout of available connection area of the sheath terminal



Terminal tightening torque

2.5 Nm

09250E00

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Technical Data

Assembly / Installation

Cable glands




M20 x 1,5 Cable gland
M25 x 1,5 Cable gland
M20 x 1,5 Semi gland

Terminal capacity of semi glands:

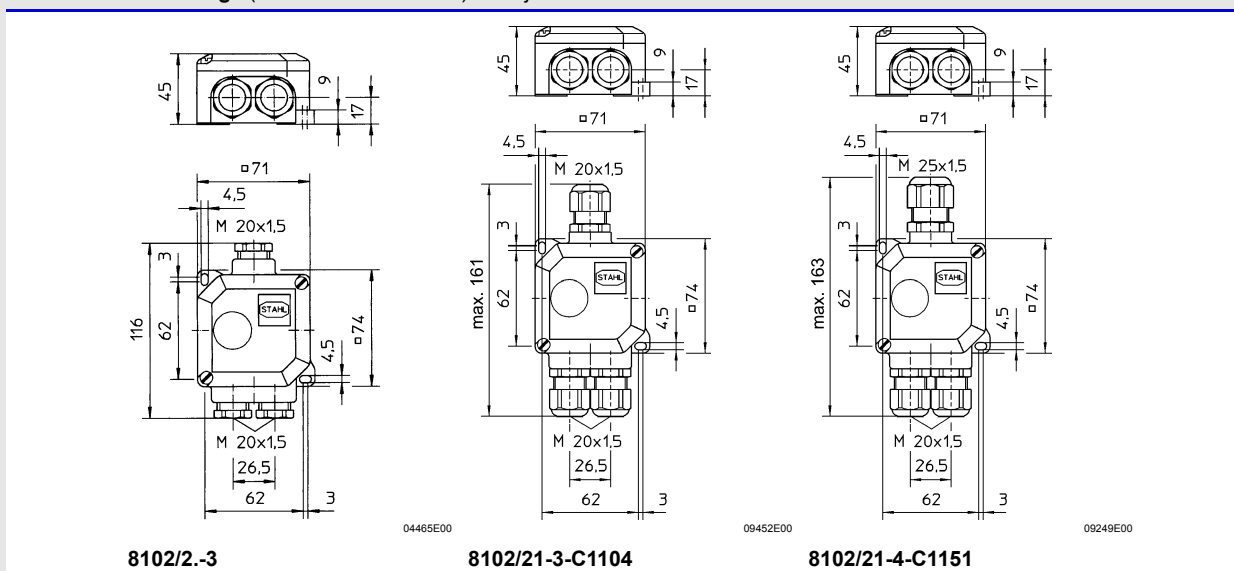
for conductor diameter [mm]

	from	to
Gasket complete	8.5	8.5
one gasket inner ring removed	10.5	12.5
both gasket inner rings removed	13.0	14.0

Accessories and Spare Parts

Designation	Illustration	Description	Order number	Weight kg	
Semi gland	 04838E00	8194/5-3-3 x M20 x 1.5	3 pieces	140474	0.019
Cable gland	 05864E00	8161/5-M20-13	1 piece	138518	0.012
		8161/5-M25-17	1 piece	138520	0.020
Stopping plug	 04840E00	8290/3-M20 x 1,5	1 piece	143522	0.005
		8290/3-M25 x 1.5	1 piece	143524	0.007

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



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.