



01877E00



Junction Boxes Series 8102

- Explosion protection according to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Equipped with 4 sheath terminals and 1 PE connection
 - Terminal capacity: 2 x 4 mm², single-wire
- Robust glass-fibre reinforced polyester resin enclosure
- Ingress Protection IP66

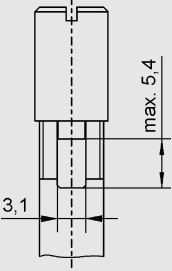
The junction boxes series 8102 are used to transport and distribute electrical energy in areas subject to explosion hazards. The boxes are made of glass fibre reinforced polyester resin.

Zones 1 & 2, 21 & 22

Selection Table

Version	Description	Order number	Weight kg
 02220E00	Semi glands 3 x M 20 x 1.5	Ex e 8102/21-31	0.278
	Semi glands 3 x M 20 x 1.5	Ex i 8102/22-31	0.300
 01599E00	Cable entries 3 x M 20 x 1.5	Ex e 8102/21-32-C1104	0.330
	Cable entries 3 x M 20 x 1.5	Ex e 8102/21-32-C995	0.200
	Cable entries 2 x M 20 x 1.5 and 1 x M 25 x 1.5	Ex e 8102/21-42-C1151	0.330
	Cable entries 2 x M 20 x 1.5, stopping plugs 1 x M 20 x 1.5	Ex e 8102/21-32-C1013	0.100

Technical Data

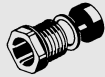


Explosion protection	
Gas explosion protection	Ex e: Ⓔ II 2 G Ex e II T6 (T _a = - 20 °C ... + 75 °C) Ⓔ II 2 G Ex e II T5 (T _a = - 20 °C ... + 55 °C) Ex i: Ⓔ II 2 G Ex ia/ib II T6 (T _a = - 20 °C ... + 75 °C)
Dust explosion protection	Ⓔ II 2 D IP66 T80 °C, T95 °C
Umgebungstemperatur	see explosion protection data (further on request)
Certificates	PTB 01 ATEX 1136
Other certificates	Ukraine (ISCVE), Belarus (Promatomnadzor)
Enclosure material	Glass fibre reinforced polyester resin
Cover fixing	M 4, cheese head screws
Rated operational voltage	690 V AC
Rated operational current	max. 27A
Terminals	4 terminals and 1 PE connection, for 2 x 4 mm ² , single-wire
Type of terminals	Sheath terminal Layout of available connection area of the sheath terminal
	
Terminal tightening torque	2,5 Nm



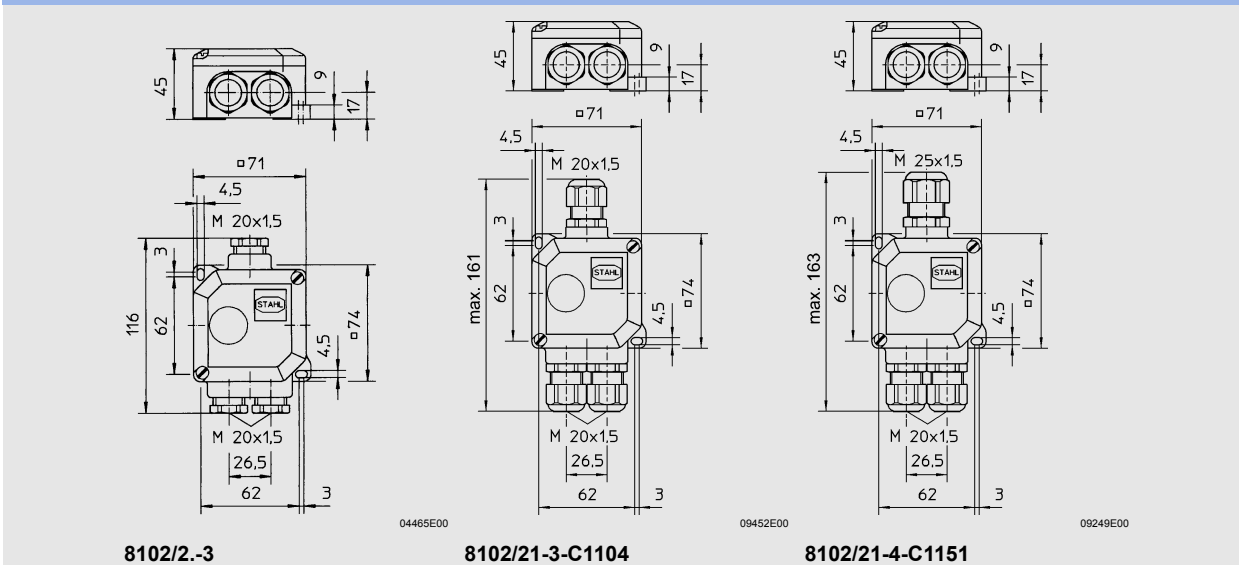
Technical Data

Cable entry	Semi glands	M20 x 1.5		
	Cable entries	M 20 x 1.5 M 25 x 1.5		
	Terminal sizes of the 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
Ambient temperature	Ex e version with semi glands: - 50 °C ... + 40 °C Ex i version with semi glands: - 50 °C ... + 75 °C Ex e version with full glands: - 40 °C ... + 40 °C Ex i version with full glands: - 40 °C ... + 75 °C			
Type of protection	IP66			

Accessories and Spare Parts

Designation	Illustration	Description		Order number	Weight kg
Semi glands	 04838E00	8194/5-3-3 x M 20 x 1.5	3 pieces	140474	0.019
Cable entries	 05864E00	8161/5-M 20-13	1 piece	138518	0.012
		8161/5-M 25-17	1 piece	138520	0.016
Stopping plugs	 04840E00	8290/3-M 20 x 1.5	1 piece	143522	0.004
		8290/3-M 25 x 1.5	1 piece	143524	0.006

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



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