



01877E00



Junction Boxes Series 8102

- Explosion protection to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Equipped with 4 hood type terminals and 1 PE connection
 - cable diameter range: 2 x 4 mm², single wire
- Robust polyester resin enclosure
- Degree of protection IP 66

STAHL

The junction boxes Series 8102 are used for carrying and distributing electrical power in hazardous areas. The boxes are made of glass-fibre reinforced polyester resin.

Selection Table

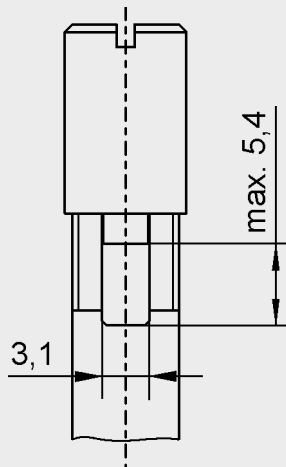
Version	Description	Ordering Code	Weight kg
 02220E00	3 integral sealing glands M 20 x 1.5	EEx e 8102/21-3	0,278
		EEx i 8102/22-3	0,300
 01599E00	3 cable glands M 20 x 1.5	EEx e 8102/21-3-C1104	0,330
	2 cable glands M 20 x 1.5 and 1 cable gland M 25 x 1.5	EEx e 8102/21-4-C1151	0,330

Zones 1 & 2, 21 & 22

Technical Data

Explosion protection	
Gas explosion protection	EEx e: ⊕ II 2 G EEx e II T6 EEx i: ⊕ II 2 G EEx ia/ib II T6
Dust explosion protection	⊕ II 2 D IP 66 T80 °C, T95 °C
Certificates	
Gas explosion protection	PTB 01 ATEX 1136
Dust explosion protection	PTB 01 ATEX 1136
Enclosure material	glas-fibre reinforced polyester resin
Cover fixing	M 4, cheese head screws
Rated voltage	690 V
Rated current	max. 27 A
Connection terminals	4 terminals and 1 PE connection, for 2 x 4 mm ² , solid
Type of terminals	hood type terminal

Layout of available connection area of the hood type terminal



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Anschlussdrehmoment	2,5 Nm
Cable entry	integral sealing gland M 20 x 1.5 cable gland M 20 x 1.5 M 25 x 1.5

Terminal sizes of the integral sealing glands

	for cable diameters [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

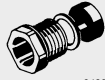


- 20 °C ... + 40 °C standard (T6)
- 50 °C ... + 40 °C with specially designed cable glands (T6)
- 50 °C ... + 55 °C with specially designed cable glands (T5)
- 50 °C ... + 75 °C for EEx i: with specially designed cable glands (T6)

With ambient temperatures ≤ - 20 °C cable entries „suitable for low temperatures“ must be used, or the box must be so positioned that the cable entries are mechanically protected.

Degree of protection	IP 66
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Accessories and Spare Parts

Designation	Illustration	Description	Ordering code	Weight kg	
Cable integral sealing gland	 04838E00	M 20 x 1.5	3 pieces	8194808370	0,019
Cable gland	 05864E00	8161/5-M 20-13	1 piece	8161077010	0,012
		8161/5-M 25-17	1 piece	8161078010	0,016
Stopping plug	 04840E00	8290/3-M 20 x 1.5	1 piece	8290008590	0,004
		8290/3-M 25 x 1.5	1 piece	8290009590	0,006

Dimension drawings (all dimensions in mm) - subject to alterations

