



01667E00

## Junction Boxes Series 8118

- Explosion protection to
  - CENELEC
  - IEC
- For use in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- Enclosures in glass fibre reinforced polyester resin
- Supplied in 3 sizes
  - with 4, 5 or 8 terminals
  - as junction box with integral small equipment fuse
    - 3 terminals and 1 small equipment fuse
    - 7 terminals and 1 small equipment fuse
    - 6 terminals and 2 small equipment fuses
- Degree of protection IP 66

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









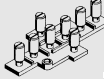






Junction boxes Series 8118 are used for carrying and distributing electrical power in hazardous areas.

They are supplied in 3 sizes with and without small equipment fuse, and are therefore suitable not only as pure connection and distribution boxes, but also for protecting electrical loads up to 6,3 A.

Cable glands in plastic Series 8161 are used as standard cable entries.

Bell-mouthed or metal glands can be fitted if ordered. The metal cable entries are connected to the earthing system via brass plates.

# Zones 1 & 2, 21 & 22

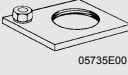
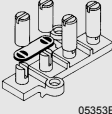

Selection Table							
Version	Cable entries					Ordering Code	Weight kg
	Position	Drillings	Cable glands	Stopping plugs			
<b>EEx e Version Size 1</b>  01656E00	 05349E00 4 terminals	 09147E00	3 x M 20 x 1.5	2 x M 20 x 1.5	1 x M 20 x 1.5	<b>8118/111-401</b>	0,280
		 09148E00	4 x M 20 x 1.5	3 x M 20 x 1.5	1 x M 20 x 1.5	<b>8118/111-403</b>	0,330
	 05576E00 5 terminals	 09148E00	4 x M 20 x 1.5	3 x M 20 x 1.5	1 x M 20 x 1.5	<b>8118/111-503</b>	0,300
		number of terminals acc. to order	drillings acc. to order.			<b>8118/111- .99</b>	.
<b>EEx i Version Size 1</b>  01548E00	 05349E00 4 terminals	 09147E00	3 x M 20 x 1.5	2 x M 20 x 1.5	1 x M 20 x 1.5	<b>8118/211-401</b>	0,280
		 09148E00	4 x M 20 x 1.5	3 x M 20 x 1.5	1 x M 20 x 1.5	<b>8118/211-403</b>	0,330
	number of terminals acc. to order	drillings acc. to order.			<b>8118/211- .99</b>	.	
<b>EEx e Version Size 2</b>  01655E00	 05348E00 8 terminals	 09149E00	4 x M 25 x 1.5	3 x M 25 x 1.5	1 x M 25 x 1.5	<b>8118/121-805</b>	0,570
		 09151E00	6 x M 20 x 1.5	4 x M 20 x 1.5	2 x M 20 x 1.5	<b>8118/121-806</b>	0,560
		 09151E00	6 x M 25 x 1.5	4 x M 25 x 1.5	2 x M 25 x 1.5	<b>8118/121-807</b>	0,600
	 05576E00 5 terminals	 09153E00	4 x M 25 x 1.5	4 x M 25 x 1.5	--	<b>8118/121-538</b>	0,625
		 09150E00	2 x M 25 x 1.5	2 x M 25 x 1.5	--	<b>8118/121-539</b>	0,600
	number of terminals acc. to order	drillings acc. to order.			<b>8118/121- .99</b>	.	






Technical Data					
Versions	Junction box without equipment fuse			Junction box with equipment fuse	
	8118/.11	8118/.21	8118/.31	8118/113	8118/123
<b>Type</b>					
Explosion protection					
Gas explosion protection	Ex e	Ex em II T6, T5 or T4		Ex em II T *	
	Ex i	Ex ia/ib IIA, IIB, IIC T6 or T5		* depending on equipment fuse used	
Dust explosion protection	Ex tD A21 IP 66 T80 °C, T95 °C			Ex tD A21 IP 66 T80 °C, T95 °C, T130 °C	
Certificates	PTB 99 ATEX 3103				
Other certificates	IECEX, SIMTARS (Australia), CTB (Russia), UL do Brasil (Brazil)				
Material					
Enclosure	Polyester resin, glass fibre reinforced, dark grey ~ RAL 7012, impact strength ≥ 7 Nm, material self-extinguishing and flame resistant according to IEC-92-1, UL 94, ASTM D 635-77				
Gaskets	Polyurethane, foam				
Cover fixing	4 x M 4 cheese head screw, stainless steel				
<b>Type</b>	<b>8118/.11</b>	<b>8118/.21</b>	<b>8118/.31</b>	<b>8118/113</b>	<b>8118/123</b>
Rated voltage	550	750	750	250 or 500 (depending on equipment fuse used) 250 or 500 (depending on equipment fuse used)	
Max. number of installable fuses	--	--	--	1 x 8560	2 x 8560
Terminals					
Type of terminals	Sheath terminals	Sheath terminals	Sheath terminals	Sheath terminals	Sheath terminals
Max. number	4 or 5	5 or 8	8	3 when using 1 equipment fuse	7 when using 1 equipment fuse, 6 when using 2 equipment fuses
Current load capacity at cross-section of	max. 25 A 4 mm <sup>2</sup>	max. 32 A 6 mm <sup>2</sup>	max. 44 A 10 mm <sup>2</sup>	max. 25 A 4 mm <sup>2</sup>	max. 32 A 6 mm <sup>2</sup>
Max. conductor cross-section	4 mm <sup>2</sup> single-wire	6 mm <sup>2</sup> single-wire	10 mm <sup>2</sup> single-wire	4 mm <sup>2</sup> single-wire	6 mm <sup>2</sup> single-wire
Ambient temperature	Ex e: - 20 °C ... + 55 °C - 50 °C ... + 55 °C with special cable glands				
	Ex i: - 20 °C ... + 75 °C - 50 °C ... + 75 °C with special cable glands				
Ingress Protection	IP 66 / IP 67				



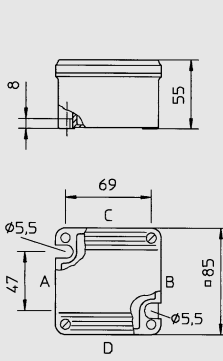
Accessories and Spare Parts							
Designation	Illustration	Description	Ordering Code	Weight kg			
Brass plate with thread		For earth continuity when using metal glands drillings are drilled to order;					
		for glands	can be fitted into enclosure				
			size 1	size 2	size 3		
		1 x M 20 x 1,5	Side C/D	Side C/D	Side C/D	<b>8118013550</b>	0,030
		1 x M 25 x 1,5 1 x M 32 x 1,5 1 x M 20 x 1,5		Side C/D	Side C/D	<b>8118010550</b>	0,060
		2 x M 25 x 1,5		Side C/D	Side C/D	<b>8118011550</b>	0,080
2 x M 32 x 1,5			Side C/D	<b>8118012550</b>	0,140		
Jumper link		for bridging of 2 hood-type terminals (side by side; usable for junction boxes)					
				8118/.1.	<b>8118901570</b>	0,002	
				8118/.2.	<b>8118902570</b>	0,003	
				8118/.3.	<b>8118903570</b>	0,005	
Fuses		8560/61, 500 V, UC					
		$I_N$ [A]	Packing unit				
		0,08	5 pieces		<b>8560/61-4051</b>	0,210	
		0,1	5 pieces		<b>8560/61-4061</b>	0,210	
		0,125	5 pieces		<b>8560/61-4071</b>	0,210	
		0,2	5 pieces		<b>8560/61-4091</b>	0,210	
		0,25	5 pieces		<b>8560/61-4101</b>	0,210	
		0,315	5 pieces		<b>8560/61-4111</b>	0,210	
		0,4	5 pieces		<b>8560/61-4131</b>	0,210	
0,5	5 pieces		<b>8560/61-4141</b>	0,210			

## Accessories and Spare Parts

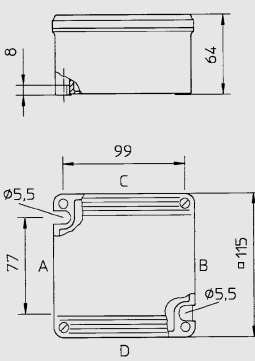
Designation	Illustration	Description	Ordering Code	Weight kg	
Fuses	 05736E00	8560/51, 250 V, UC			
		$I_N$ [A]	Packing unit		
		0,032	5 pieces	<b>8560/51-4021</b>	0,210
		0,05	5 pieces	<b>8560/51-4031</b>	0,210
		0,063	5 pieces	<b>8560/51-4041</b>	0,210
		0,08	5 pieces	<b>8560/51-4051</b>	0,210
		0,1	5 pieces	<b>8560/51-4061</b>	0,210
		0,125	5 pieces	<b>8560/51-4071</b>	0,210
		0,16	5 pieces	<b>8560/51-4081</b>	0,210
		0,2	5 pieces	<b>8560/51-4091</b>	0,210
		0,25	5 pieces	<b>8560/51-4101</b>	0,210
		0,315	5 pieces	<b>8560/51-4111</b>	0,210
		0,4	5 pieces	<b>8560/51-4131</b>	0,210
		0,5	5 pieces	<b>8560/51-4141</b>	0,210
		0,63	5 pieces	<b>8560/51-4151</b>	0,210
		0,8	5 pieces	<b>8560/51-4171</b>	0,210
		1,0	5 pieces	<b>8560/51-4181</b>	0,210
		1,25	5 pieces	<b>8560/51-4191</b>	0,210
		2,0	5 pieces	<b>8560/51-4222</b>	0,210
4,0	5 pieces	<b>8560/51-4252</b>	0,210		

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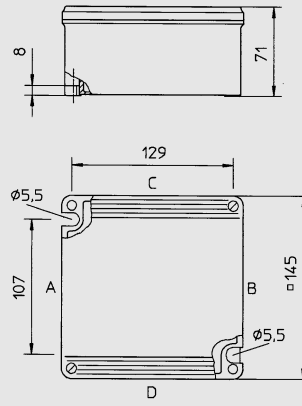
## Dimension drawings (all dimensions in mm) - subject to alterations



04466E00



04467E00



04468E00

Nominal size	L [mm]	
	min.	max.
M20	25	31
M25	27	33
M32	32	39

Additional dimension for cable entries Series 8161

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.