## Ex e junction box



#### 8118/121-539 Art. No. 133253



- Resistant Ex e enclosure, universally usable as connection or junction boxes and/or to safeguard electric distributors up to 6.3 A
- IP66 degree of protection
- With mantle terminals or with a combination of mantle terminals and miniature fuses (optional)

#### MY R. STAHL 8118A



R. STAHL Series 8118 junction boxes are equipped with 4, 5 or 8 mantle terminals depending on their design size. As an option, miniature fuses can still be installed in addition. Junction boxes are therefore also suitable for safeguarding. The robust enclosure made from glass fibre reinforced polyester resin can be equipped with plastic or metal cable glands.

#### **Technical Data**

<b>Explosion Protection</b>			
Scope of validity	European Union (ATEX) IECEx		
Application range (zones)	1 2 21 22		
IECEx gas certificate	IECEx PTB 06.0026		
IECEx gas explosion protection	Ex eb IIC T6 / T5 Gb		
IECEx dust certificate	IECEx PTB 06.0026		
IECEx dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db		
ATEX gas certificate	PTB 99 ATEX 3103		
ATEX gas explosion protection			
ATEX dust certificate	PTB 99 ATEX 3103		
ATEX dust explosion protection			
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEx (PTB), India (PESO), Korea (KTL)		
Declaration of Conformity	China (CCC)		
Explosion protection note	For product label, see scope of validity.		
Electrical Data			
Rated operational voltage AC	0 750 V		
Rated operational voltage AC	750 V		
Permissible rated operational current with 7 loaded terminals	For conductor cross-section of 1.5 mm <sup>2</sup> : 13 A For conductor cross-section of 2.5 mm <sup>2</sup> : 17 A For conductor cross-section of 4 mm <sup>2</sup> : 24 A For conductor cross-section of 6 mm <sup>2</sup> : 32 A		
Permissible rated operational current with 6 loaded terminals	For conductor cross-section of 1.5 mm <sup>2</sup> : 14 A For conductor cross-section of 2.5 mm <sup>2</sup> : 18 A For conductor cross-section of 4 mm <sup>2</sup> : 25 A For conductor cross-section of 6 mm <sup>2</sup> : 33 A		

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Electrical Data	
Permissible rated operational current with	For conductor cross-section of 1.5 mm <sup>2</sup> : 14 A
5 loaded terminals	For conductor cross-section of 2.5 mm <sup>2</sup> : 20 A
	For conductor cross-section of 4 mm <sup>2</sup> : 25 A For conductor cross-section of 6 mm <sup>2</sup> : 35 A
Dermissible rated exerctional current with	
Permissible rated operational current with ≤ 4 loaded terminals	For conductor cross-section of 1.5 mm <sup>2</sup> : 16 A For conductor cross-section of 2.5 mm <sup>2</sup> : 20 A
= 4 lodded terminals	For conductor cross-section of 4 mm²: 25 A
	For conductor cross-section of 6 mm <sup>2</sup> : 35 A
Ambient Conditions	
Ambient temperature	-40 °C +40 °C (T6)
	-40 °C +55 °C (T5)
Ambient temperature	-40°F +104°F (T6)
	-40°F +131°F (T5)
Mechanical Data	ID00
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Flammability according to	IEC/EN 60695 UL 94
	ASTM D635
Silicone-free	No
Permissible number of conductors per	Mantle terminal, M8.5 x 1
clamping unit, solid	Conductor cross-section 1.5 mm²: Number of conductors min. 2, max. 7
	Conductor cross-section 2.5 mm <sup>2</sup> : Number of conductors min. 2, max. 5
	Conductor cross-section 4 mm <sup>2</sup> : Number of conductors min. 2, max. 3
	Conductor cross-section 6 mm²: Number of conductors min. 2, max. 2
Permissible number of conductors per	Mantle terminal M8.5 x 1
clamping unit, finely stranded prepared, core end sleeve crimped	Conductor cross-section 1.5 mm²: Number of conductors min. 2, max. 5 Conductor cross-section 2.5 mm²: Number of conductors min. 2, max. 3
core ena siceve cimpea	Conductor cross-section 4 mm²: Number of conductors min. 2, max. 5
Permissible number of conductors per	Mantle terminal, M8.5 x 1
clamping unit, finely stranded unprepared	Conductor cross-section 1.5 mm <sup>2</sup> : Number of conductors min. 2, max. 5
	Conductor cross-section 2.5 mm²: Number of conductors min. 2, max. 3
	Conductor cross-section 4 mm²: Number of conductors min. 2, max. 5
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
Cover fixing type	M4 stainless steel screws, With captive screws
Width	115 mm
Width, inches	4.53 in
Height	115 mm
Height, inches	4.53 in
Depth	64 mm
Depth, inches	2.52 in
Packaging unit	1
Weight	600 g
Weight	1.32 lb
Mounting / Installation	
Tightening torque of cover screw 1	1.4 Nm

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Mounting / Installation	40 4 lbf in
Tightening torque of cover screw 1 lbf in	12.4 lbf in
Components	
Entry 1	2 x 8161/7-M25-1707
	(Provided separately)
Entry 1 type	Polyamide cable gland, black
Entry 1	M25 x 1.5
Entry 1 terminal area	7-17 mm
Entry 1 clamping range, inch	0.28-0.67 in
Metal entry possible 1	No
Entries installation options/side	Size 2: 2x M25 (D)
Type of terminals 1	5 x Mantle terminal
	6 mm²

#### **Technical Drawings - Subject to Alterations**





"—" = marking for mounting options

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







8118/.2.

Enclosure SZ 2

Length L For M20: 25 to 31 [0.98 to 1.22] For M25: 27 to 33 [1.06 to 1.3]

For M32: 32 to 39 [1.26 to 1.54]

Projection dimension for cable gland with strain relief of Series HSK-K-MZ

For M25: 41 [1.61]

#### **Accessories**

Cable gland made of plastic		Art. No.	
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157	
rass plate witl	n thread	Art. No.	
	8118 SZ 2, plate 56 x 40 mm [2.2 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (right) For installation in enclosure SZ 2 and SZ 3	244072	
	8118 SZ 2, plate 56 x 40 mm [2.2 x 1.57 inch] 1 x M25 x 1.5 with M4 PE connection (left)	211341	

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60	8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (centre)	168915
	For installation in enclosure SZ 2 and SZ 3  8118 SZ 3/B, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M20 x 1.5 with M4 PE connection (centre)	244075
	For installation in enclosure SZ 2 and SZ 3	
•	8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 1 x M20 x 1.5 + 1 x M10 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3	211342
	8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 2 x M25 x 1.5 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3	168916
	8118 SZ 3, plate 74 x 40 mm [2.91 x 1.57 inch] 1 x M25 x 1.5 + 1 x M10 with M4 PE connection (centre) For installation in enclosure SZ 2 and SZ 3	211343

## **Spare Parts**

Angle		Art. No.
	Bracket 8118 SZ 2, for junction boxes, 4 x M25 For installation in enclosure SZ 2	202959

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