

8118/122-131-0 Art. No. 289845



- Compact, impact-resistant enclosure with increased safety (Ex e) type of protection
- Versions available with integrated metal bracket for optimised installation of metal cable glands
- Pre-installed fixing carrier for WAGO 221 Ex connection terminals
- Simple, fast and safe installation of electrical lines with spring lever technology
- A range of clamping cross-sections from 0.14 to 4 mm<sup>2</sup> can be installed for each connection clamping unit
- Use of core end sleeves not necessary for stranded or finely stranded electrical lines
- 2-, 3- and 5-way terminal blocks available as accessories

### MY R. STAHL 8118D



R. STAHL Series 8118 terminal boxes with WAGO 221 Ex connection terminals are made of glass fibre reinforced polyester resin. They are available in 2 design sizes and can be flexibly equipped with plastic or metal cable glands. They combine the advantages of the simple WAGO 221 connection terminal installation technology with proven R. STAHL enclosures with increased safety (Ex e) type of protection.

## Technical Data

### Explosion Protection

Scope of validity	European Union (ATEX) IECEX
Application range (zones)	1
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	⊕ II 2 G Ex eb IIC T6 / T5 Gb
ATEX dust certificate	PTB 99 ATEX 3103
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T95 °C Db
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	440 V
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### Ambient Conditions

Ambient temperature	-55 °C ... +40 °C (T6) -55 °C ... +55 °C (T5)
Ambient temperature	-67°F ... +104°F (T6) -67°F ... +131°F (T5)

### Mechanical Data

Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey

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#### Mechanical Data

Flammability according to	IEC/EN 60695 UL 94 ASTM D635
Silicone-free	No
Connection cross-section	4 mm <sup>2</sup>
Cover	Screw-on cover
Cover fixing type	M4 stainless steel screws, With captive screws
Connection cross-section note	Min. clamping range: 0.2 mm <sup>2</sup> (solid, stranded) / 0.14 mm <sup>2</sup> (finely stranded). It is possible to connect conductors with different cross sections. Use only in connection with fixing carrier type no. 272625.
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	500 g
Weight	1.1 lb

#### Mounting / Installation

Tightening torque of cover screw 1	1.4 Nm
Tightening torque of cover screw 1 lbf in	12.4 lbf in

#### Components

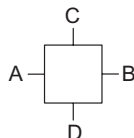
Entry 1	3 x 8161/7-M20-1304-LT with plug
Entry 1 type	Polyamide cable gland, black
Entry 1	M20 x 1.5
Entry 1 terminal area	4 – 13 mm
Entry 1 clamping range, inch	0.16 – 0.51 in
Metal entry possible 1	No
Entry 2	1 x 8290/3-M20 (Provided separately)
Entry 2 type	Polyamide stopping plug
Entry 2	M20 x 1.5
Metal entry possible 2	No
Entries installation options/side	Size 2: 4x M20 (A+B+C+D)
Terminal rail	35 x 100 mm (1x)
Terminal rail	1,38 x 3,94 " (1x)
Type of terminals 1	1 x WAGO 221-482 2 conductor 4 mm <sup>2</sup> , light grey

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### Components

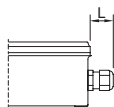
Note connection terminal	<p>The connection terminals must be fixed to the fixing carrier.</p> <p>Maximum equipping per fixing carrier: (max. 10 clamping units per fixing carrier)</p> <p>5 x 2-conductor connection terminals (275 V),          4 x 2-conductor connection terminals (440 V),          3 x 3-conductor connection terminals (440 V),          2 x 5-conductor connection terminals (440 V).</p> <p>At a rated operational voltage &gt; 275 V, a slot between the each of the connection terminals must remain free. This means that the maximum equipping is reduced to 4 x 2-conductor connection terminals per fixing carrier.</p> <p>Number of fixing carriers:          max. 3 pieces for enclosure size 8118/2          max. 5 pieces for enclosure size 8118/3</p>
Note mounting carriers	<p>A mounting foot must be installed between the fixing carriers in order to maintain the creepage distances and clearances for 440 V.</p>

### Technical Drawings – Subject to Alterations



"—" = marking for mounting options

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



Length L  
 Projection dimension for cable gland of Series 8161:  
 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

	8161/7-M20-1307-LT, Ex e Plastic, M20 x 1.5, cable outer diameter 7 to 13 mm Lot size 50 pieces	Art. No. 239204
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#### Connection terminal

	WAGO 221-482 for 2 x 0.2 to 4 mm <sup>2</sup> Batch size 100 pieces	Art. No. 272622
	WAGO 221-483 for 3 x 0.2 to 4 mm <sup>2</sup> Batch size 50 pieces	Art. No. 272623

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	WAGO 221-485 for 5 x 0.2 to 4 mm <sup>2</sup> Batch size 25 pieces	272624
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**Connection terminal set** **Art. No.**

	WAGO 221 installation set Contains 2 x fixing carrier 221-501 for 4 mm <sup>2</sup> 2 x mounting foot 209-120, 6.4 mm 4 x connection terminal 221-482 for 2 x 0.2 to 4 mm <sup>2</sup> 6 x connection terminal 221-483 for 3 x 0.2 to 4 mm <sup>2</sup> 5 x connection terminal 221-485 for 5 x 0.2 to 4 mm <sup>2</sup>	288873
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**Fixing carrier** **Art. No.**

	WAGO 221-501 for 4 mm <sup>2</sup> Batch size ten pieces	272625
	WAGO 221-501 for 4 mm <sup>2</sup> , blue	289956

**Mounting foot** **Art. No.**

	WAGO 209-120; 6.4 mm Batch size 25 pieces	272626
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**Reduction sealing insert (standard), EPDM (-40 to +75 °C)  
For cable glands** **Art. No.**

	Connection thread: M20 x 1.5    Batch size: 50 Clamping range: 4 to 8 mm	239446
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**Stopping plug** **Art. No.**

	8290/3-M20 Plastic, M20 x 1.5 Lot size 100 pieces	285773
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