

8146/2081 Art. No. 136807



- Versatile Ex i terminal boxes in various sizes and heights, degree of protection IP66
- Can be equipped as per customer requirements
- Enclosure with captive cover screws, flanges can be fitted on enclosure sides if required

MY R. STAHL 8146P



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fibre reinforced polyester resin, are ideal for use in harsh ambient conditions. With eight basic sizes in various heights, they are universally usable. If requested by the customer, they are equipped with terminal blocks up to 300 mm<sup>2</sup> and, as an option, a flange can be put on several enclosure sides.

### Technical Data

#### Explosion Protection

Area of application	European Union (ATEX) IECEX United Kingdom
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0046
IECEX gas explosion protection	Ex ia ib IIC T6 Gb
IECEX dust certificate	IECEX PTB 06.0046
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	PTB 01 ATEX 1016
ATEX gas explosion protection	⊕ II 2 G Ex ia ib IIC T6 Gb
ATEX dust certificate	PTB 01 ATEX 1016
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO), Taiwan (ITRI)
Declaration of conformity	ATEX (EUK), China (CCC)

#### Electrical Data

Rated operational voltage AC	0 ... 60 V
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#### Ambient Conditions

Ambient temperature	-60 °C ... +75 °C
Ambient temperature	-76°F ... +167°F

#### Mechanical Data

Degree of protection note	According to IEC/EN 60529
IP degree of protection (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Enclosure colour	Dark grey
Flammability according to	IEC/EN 60695 UL 94 ASTM D635

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### Mechanical Data

Silicone-free	No
Cover thickness	2.8 mm
Cover thickness in inches	0.11 in
Wall thickness	2.8 mm
Wall thickness in inches	0.11 in
Width	340.5 mm
Width, inches	13.406 in
Height	340.5 mm
Height in inches	13.4060 in
Depth	91 mm
Depth in inches	3.583 in
Weight	3.8 kg
Weight	8.38 lb

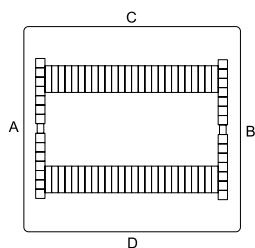
### Mounting / Installation

Tightening torque lbf in	0 lbf-in
Tightening torque of cover screw 1	4.5 N · m
Tightening torque of cover screw 1 lbf in	39.83 lbf in

### Components

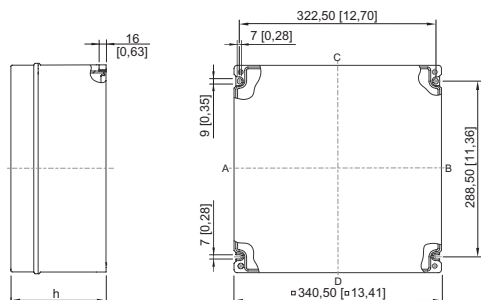
Flange and plates	Without flange
Entries installation options/side	Without drilled holes
Terminal rail	35 x 301 mm (2x)
Terminal rail	1.38 x 11.85" (2x)
Type of terminals 1	1 x Phoenix UT 2-conductor, 4 mm <sup>2</sup> , blue
PA rail	18 x 4 mm <sup>2</sup> (1x)

### Technical Drawings – Subject to Alterations



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



8146/.08.  
 8146/.081: h = 91 mm [3.58 inch]  
 8146/.082: h = 131 mm [5.16 inch]  
 8146/.083: h = 150 mm [5.91 inch]  
 8146/.084: h = 171 mm [6.73 inch]  
 8146/.085: h = 190 mm [7.48 inch]  
 8146/.086: h = 230 mm [9.06 inch]

## Spare Parts

### 2 mm brass plate for enclosure

Art. No.

	For 8146/.071, 8146/.072 (enclosure sides C/D) 8146/.081, 8146/.082 (enclosure sides A/B) 8146/.091, 8146/.092 (enclosure sides C1/D1)	136927
	For 8146/.S71 (enclosure sides C/D) 8146/.081, 8146/.082 (enclosure sides C/D) 8146/.091, 8146/.092 (enclosure sides A/B)	136950

### 2 mm brass plate for flanges

Art. No.

	For flange size 1 (68 x 128 mm)	136888
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### 3 mm brass plate for enclosure

Art. No.

	For 8146/.071, 8146/.072 (enclosure sides C/D) 8146/.081, 8146/.082 (enclosure sides A/B) 8146/.091, 8146/.092 (enclosure sides C1/D1)	136313
	For 8146/.S71 (enclosure sides C/D) 8146/.081, 8146/.082 (enclosure sides C/D) 8146/.091, 8146/.092 (enclosure sides A/B)	136544

### 3 mm brass plate for flanges

Art. No.

	For flange size 1 (68 x 128 mm)	136201
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# Installation equipment

## Ex i terminal box



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Frame		Art. No.
	Size 1, 68 x 128 mm	135974

Flange		Art. No.
	Size 1: 68 x 128 mm, 5.8 mm thick	136032
	Size 1: 68 x 128 mm, 2.8 mm thick	135978

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