



14111E00

- > Circumferential protection channel prevents water entry
- > Extended temperature range due to high-quality seal materials
- > Optionally with hinges / cam locks or screw-on cover
- > Hinge versions with large opening angle 130°
- > Flange plates tightened from the outside enables simple installation
- > Standard sizes on stock
- > Special sizes on request



WebCode 8150B

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

E4

Technical Data	
Explosion protection	
Global (IECEX)	
Gas and dust	IECEX PTB 09.0049 Ex d e ia/ib [ia/ib] ma mb q IIA, IIB, IIC T6, T5, T4 Gb Ex tb IIIC IP66 T130°C, T95°C, T80°C Db
Europe (ATEX)	
Gas and dust	PTB 09 ATEX 1109 ⊕ II 2 G Ex d e ia/ib [ia/ib] ma mb q IIA, IIB, IIC T6, T5, T4 Gb ⊕ II 2 D Ex tb IIIC IP66 T130°C, T95°C, T80°C Db
Certificates and approvals	
Certificates	IECEX, ATEX
Electrical data	
Rated operational voltage	max. 1100 V AC / DC depending on explosion protected components used
Rated operational current	max. 630 A depending on explosion protected components used
Rated cross section	300 mm ² depending on explosion protected components used
Ambient conditions	
Ambient temperature	-60 ... +85 °C ... depending on explosion protected components used
Mechanical data	
Degree of protection	IP66 acc. to IEC/EN 60529 (depending on the built-in components used)
Material	
Enclosure	8150/5-...-...-2...: stainless steel 1.4301 (AISI 304), brush finished 8150/5-...-...-3...: stainless steel 1.4404 (AISI 316L), brush finished
Seal	Silicone, foamed
Flanges	
Standard	In the standard version, the enclosures are supplied without flanges.
Option	Depending on order requirements the enclosures can be installed on one or more sides with flanges; flange material: stainless steel
Cover lock	
Standard	with captive M6 stainless steel combo head screws
Option	with cover hinges
Connection	Depending on order requirements at the built-in components or at the terminal blocks. The rated operational voltage, the rated operational current and the rated cross-section depend on the terminal type used and the explosion protected components.
Terminals	Permissible rated cross-section which can be used - max. 300 mm ² . The maximum number of terminals for the respective enclosure size is indicated in the EC Type Examination Certificate.
Tightening torque	according to specifications of the terminal block manufacturer

Equipment Table for Control Boxes 8150, for built-in components with mounting grid 42 mm



8082
Control devices with actuators \varnothing 38 mm

8010
Indicating lamp

8082/8010
Illuminated pushbutton

	<p>Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control devices 8082, indicating lamps 8010 and illuminated pushbuttons 8082/8010</p>	<p>Order Number</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>176 116 91</p>	<p>Figure 4.1</p>	<p>8150/5-0176-0116-091 - .311</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>176 176 91</p>	<p>Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4</p>	<p>8150/5-0176-0176-091 - .311</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>236 176 91</p>	<p>Figure 6.1 Figure 6.2 Figure 6.3 Figure 6.4</p>	<p>8150/5-0236-0176-091 - .311</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>360 176 91</p>	<p>Figure 7.1 Figure 7.2</p>	<p>8150/5-0360-0176-091 - .311</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>360 360 91</p>	<p>Figure 8.1 Figure 8.2</p>	<p>8150/5-0360-0360-091 - .3.1</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>727 360 150</p>	<p>Figure 9.1</p>	<p>8150/5-0727-0360-150 - .311</p>
<p>Steel quality</p> <p>1.4301</p> <p>1.4404</p> <p>hinge + cam lock</p> <p>without</p> <p>with</p>		<p>8150/-2. . .</p> <p>8150/-3. . .</p> <p>8150/1. . .</p> <p>8150/2. . .</p>

<p>08242E00</p>	<p>Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control devices 8082, indicating lamps 8010 and illuminated pushbuttons 8082/8010</p>		<p>Order Number</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>727 360 150</p>	<p>Figure 9.2</p> <p>14911E00</p>	<p>Figure 9.3</p> <p>14912E00</p>	<p>8150/5-0727-0360-150-.311 8150/5-0360-0727-150-.321</p>
<p>Steel quality</p> <p>hinge + cam lock</p>	<p>1.4301 1.4404 without with</p>		<p>8150/.-.....-2... 8150/.-.....-3... 8150/.-.....-1. 8150/.-.....-2.</p>

E4

<p>Equipment Table for Control Boxes 8150, for built-in components with mounting grid > 42 mm</p>			
<p>09336E00</p> <p>8082 Control devices with actuators $\varnothing > 38$ mm</p>	<p>09337E00</p> <p>8008 Control switches</p>	<p>09342E00</p>	<p>09341E00 01842E00</p> <p>8405 Ammeter</p>

<p>08242E00</p>	<p>Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control switches 8008, ammeter 8405, control devices 8082 with actuators $d > 38$ mm</p>				<p>Order Number</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>176 116 91</p>	<p>Figure 4.2</p> <p>14913E00</p>	<p>Figure 4.3</p> <p>14914E00</p>	<p>Figure 4.4</p> <p>14915E00</p>	<p>Figure 4.5</p> <p>14916E00</p>	<p>8150/5-0176-0116-091-.311</p>
<p>Dimensions [mm]</p> <p>a b c</p> <p>176 176 91</p>	<p>Figure 5.5</p> <p>14917E00</p>	<p>Figure 5.6</p> <p>14918E00</p>	<p>8150/5-0176-0176-091-.311</p>		
<p>Dimensions [mm]</p> <p>a b c</p> <p>236 176 91</p>	<p>Figure 6.5</p> <p>14940E00</p>	<p>Figure 6.6</p> <p>14941E00</p>	<p>8150/5-0236-0176-091-.311</p>		
<p>Steel quality</p> <p>hinge + cam lock</p>	<p>1.4301 1.4404 without with</p>		<p>8150/.-.....-2... 8150/.-.....-3... 8150/.-.....-1. 8150/.-.....-2.</p>		

	<p>Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control switches 8008, ammeter 8405, control devices 8082 with actuators d > 38 mm</p>	<p>Order Number</p>
<p>Dimensions [mm] a b c 300 200 150</p>	<p>Figure 10.1 Figure 10.2</p>	<p>8150/5-0300-0200-150- . 311</p>
<p>Dimensions [mm] a b c 360 176 91</p>	<p>Figure 7.3</p>	<p>8150/5-0360-0176-091- . 311</p>
<p>Dimensions [mm] a b c 360 176 91</p>	<p>Figure 7.4 Figure 7.5</p>	<p>8150/5-0360-0176-091- . 311</p>
<p>Dimensions [mm] a b c 360 360 91</p>	<p>Figure 8.3 Figure 8.4</p>	<p>8150/5-0360-0360-091- . 3. 1</p>
<p>Dimensions [mm] a b c 400 300 150</p>	<p>Figure 11.1 Figure 11.2</p>	<p>8150/5-0400-0300-150- . 311</p>
<p>Dimensions [mm] a b c 400 400 150</p>	<p>Figure 12.1 Figure 12.2</p>	<p>8150/5-0400-0400-150- . 3. 1</p>
<p>Dimensions [mm] a b c 600 400 150</p>	<p>Figure 13.1 Figure 13.2</p>	<p>8150/5-0600-0400-150- . 3. 1</p>
<p>Steel quality hinge + cam lock</p>	<p>1.4301 1.4404 without with</p>	<p>8150/ . - -2... 8150/ . - -3... 8150/ . - -1. 8150/ . - -2.</p>

	<p>Equipment arrangement maximum equipment possibilities with built-in components for mounting grid 42 mm as: control switches 8008, ammeter 8405, control devices 8082 with actuators d > 38 mm</p>	<p>Order Number</p>						
<p>Dimensions [mm]</p> <table border="1"> <tr> <td>a</td> <td>b</td> <td>c</td> </tr> <tr> <td>400</td> <td>600</td> <td>150</td> </tr> </table>	a	b	c	400	600	150	<p>Figure 13.3</p> <p>Figure 13.4</p>	<p>8150/5-0600-0400-150-.311 8150/5-0400-0600-150-.321</p>
a	b	c						
400	600	150						
<p>Dimensions [mm]</p> <table border="1"> <tr> <td>a</td> <td>b</td> <td>c</td> </tr> <tr> <td>727</td> <td>360</td> <td>150</td> </tr> </table>	a	b	c	727	360	150	<p>Figure 9.4</p>	<p>8150/5-0727-0360-150-.311</p>
a	b	c						
727	360	150						
<p>Dimensions [mm]</p> <table border="1"> <tr> <td>a</td> <td>b</td> <td>c</td> </tr> <tr> <td>727</td> <td>360</td> <td>150</td> </tr> </table>	a	b	c	727	360	150	<p>Figure 9.5</p>	<p>8150/5-0727-0360-150-.311</p>
a	b	c						
727	360	150						
<p>Dimensions [mm]</p> <table border="1"> <tr> <td>a</td> <td>b</td> <td>c</td> </tr> <tr> <td>600</td> <td>600</td> <td>150</td> </tr> </table>	a	b	c	600	600	150	<p>Figure 14.1</p> <p>Figure 14.2</p>	<p>8150/5-0600-0600-150-.3.1</p>
a	b	c						
600	600	150						
<p>Steel quality</p> <p>1.4301</p> <p>1.4404</p> <p>hinge + cam lock</p> <p>without</p> <p>with</p>		<p>8150/.-.....-2...</p> <p>8150/.-.....-3...</p> <p>8150/.-.....-1.</p> <p>8150/.-.....-2.</p>						

E4

Table for max. number of entries possible with cable glands 8161 see 8150 terminal boxes

Dimensional drawings see terminal boxes Series 8150