

## Separate units: Blocks sub-assemblies

 Technical Info (p. 103)

### ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

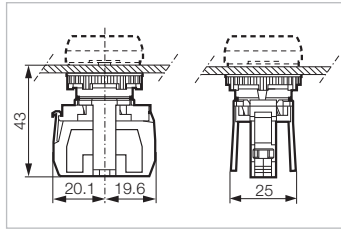
#### SCREW TERMINALS

#### 1 position clip: LED block

Part Number



331EAGL



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 331EAWL
- 331EARL
- 331EAGL
- 331EABL
- 331EAYL

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 331EAWM
- 331EARM
- 331EAGM
- 331EABM
- 331EAYM

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

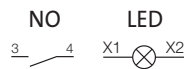
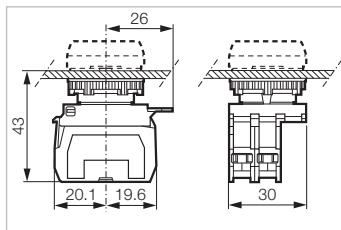
- 331EAWH
- 331EARH
- 331EAGH
- 331EABH
- 331EAYH

#### SCREW TERMINALS

#### 3 position clip: NO + LED block



333EAWM10



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL10
- 333EARL10
- 333EAGL10
- 333EABL10
- 333EAYL10

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM10
- 333EARM10
- 333EAGM10
- 333EABM10
- 333EAYM10

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWH10
- 333EARH10
- 333EAGH10
- 333EABH10
- 333EAYH10

# Separate units: Blocks sub-assemblies

 Technical Info (p.103)

## ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

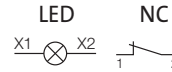
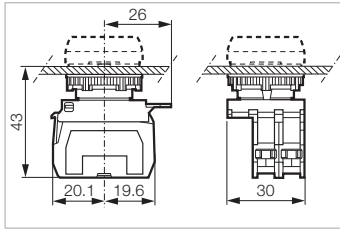
### SCREW TERMINALS

#### 3 position clip: LED block + NC

Part Number



333EAWL01



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL01
- 333EARL01
- 333EAGL01
- 333EABL01
- 333EAYL01

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM01
- 333EARM01
- 333EAGM01
- 333EABM01
- 333EAYM01

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

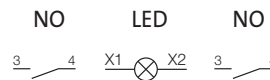
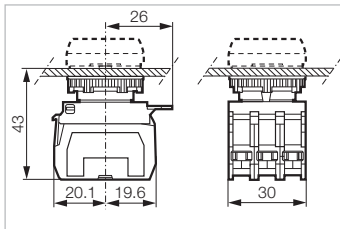
- 333EAWH01
- 333EARH01
- 333EAGH01
- 333EABH01
- 333EAYH01

### SCREW TERMINALS

#### 3 position clip: NO + LED block + NO



333EARL20



#### 12/24 Vac/dc

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL20
- 333EARL20
- 333EAGL20
- 333EABL20
- 333EAYL20

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM20
- 333EARM20
- 333EAGM20
- 333EABM20
- 333EAYM20

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWH20
- 333EARH20
- 333EAGH20
- 333EABH20
- 333EAYH20

# Separate units: Blocks sub-assemblies

 Technical Info (p. 103)

## ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

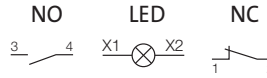
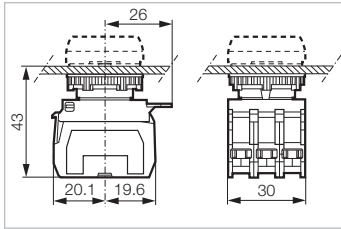
### SCREW TERMINALS

3 position clip: NO + LED block + NC

Part Number



333EARL11



**12/24 Vac/Vdc**

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL11
- 333EARL11
- 333EAGL11
- 333EABL11
- 333EAYL11

**130 Vac**

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM11
- 333EARM11
- 333EAGM11
- 333EABM11
- 333EAYM11

**230 Vac**

- White
- Red
- Green
- Blue
- Yellow

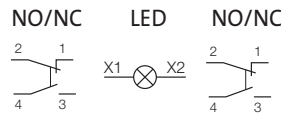
- 333EAWH11
- 333EARH11
- 333EAGH11
- 333EABH11
- 333EAYH11

### SCREW TERMINALS

3 position clip: NO/NC + LED block + NO/NC



334EARL22



**12/24 Vac/Vdc**

- White
- Red
- Green
- Blue
- Yellow

- 334EAWL22
- 334EARL22
- 334EAGL22
- 334EABL22
- 334EAYL22

**130 Vac**

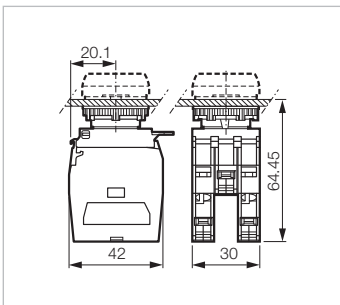
- White
- Red
- Green
- Blue
- Yellow

- 334EAWM22
- 334EARM22
- 334EAGM22
- 334EABM22
- 334EAYM22

**230 Vac**

- White
- Red
- Green
- Blue
- Yellow

- 334EAWH22
- 334EARH22
- 334EAGH22
- 334EABH22
- 334EAYH22



## Separate units: Blocks sub-assemblies

 Technical Info (p. 103)

### ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

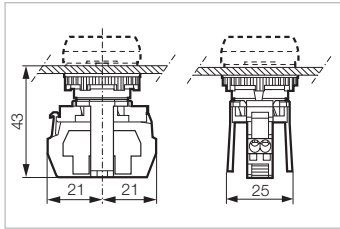
#### PLUG-IN TERMINALS

#### 1 position clip: LED block

Part Number



331ERAGH



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

331ERAWL  
331ERARL  
331ERAGL  
331ERABL  
331ERAYL

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

331ERAWM  
331ERARM  
331ERAGM  
331ERABM  
331ERAYM

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

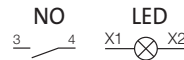
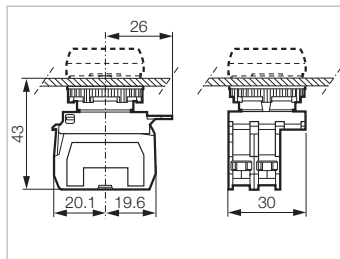
331ERAWH  
331ERARH  
331ERAGH  
331ERABH  
331ERAYH

#### PLUG-IN TERMINALS

#### 3 position clip: NO + LED block



333ERAGL10



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

333ERAWL10  
333ERARL10  
333ERAGL10  
333ERABL10  
333ERAYL10

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

333ERAWM10  
333ERARM10  
333ERAGM10  
333ERABM10  
333ERAYM10

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

333ERAWH10  
333ERARH10  
333ERAGH10  
333ERABH10  
333ERAYH10

## Separate units: Blocks sub-assemblies

 Technical Info (p. 103)

### ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

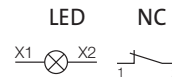
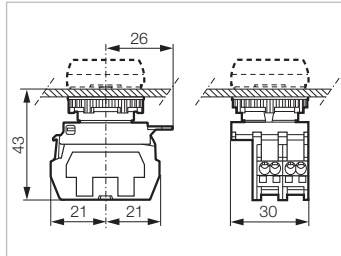
#### PLUG-IN TERMINALS

3 position clip: LED block + NC

Part Number



333ERAGH01



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

333ERAWL01  
333ERARL01  
333ERAGL01  
333ERABL01  
333ERAYL01

130 Vac

- White
- Red
- Green
- Blue
- Yellow

333ERAWM01  
333ERARM01  
333ERAGM01  
333ERABM01  
333ERAYM01

230 Vac

- White
- Red
- Green
- Blue
- Yellow

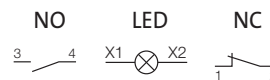
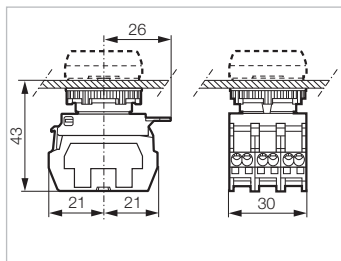
333ERAWH01  
333ERARH01  
333ERAGH01  
333ERABH01  
333ERAYH01

#### PLUG-IN TERMINALS

3 position clip: NO + LED block + NC



333ERAGH11



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

333ERAWL11  
333ERARL11  
333ERAGL11  
333ERABL11  
333ERAYL11

130 Vac

- White
- Red
- Green
- Blue
- Yellow

333ERAWM11  
333ERARM11  
333ERAGM11  
333ERABM11  
333ERAYM11

230 Vac

- White
- Red
- Green
- Blue
- Yellow

333ERAWH11  
333ERARH11  
333ERAGH11  
333ERABH11  
333ERAYH11

# Separate units: Blocks sub-assemblies

 Technical Info (p.103)

## ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

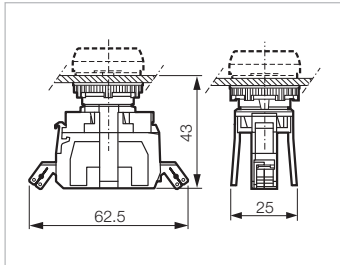
### FASTON TERMINALS

#### 1 position clip: LED block

Part Number



331EDARL



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 331EDAWL
- 331EDARL
- 331EDAGL
- 331EDABL
- 331EDAYL

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 331EDAWM
- 331EDARM
- 331EDAGM
- 331EDABM
- 331EDAYM

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

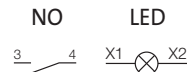
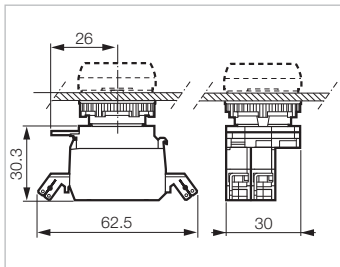
- 331EDAWH
- 331EDARH
- 331EDAGH
- 331EDABH
- 331EDAYH

### FASTON TERMINALS

#### 3 position clip: NO + LED block



333EDARL10



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL10
- 333EDARL10
- 333EDAGL10
- 333EDABL10
- 333EDAYL10

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM10
- 333EDARM10
- 333EDAGM10
- 333EDABM10
- 333EDAYM10

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWH10
- 333EDARH10
- 333EDAGH10
- 333EDABH10
- 333EDAYH10

# Separate units: Blocks sub-assemblies

## ▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

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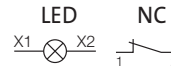
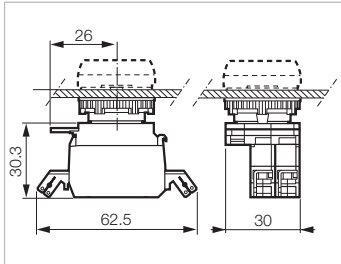
### FASTON TERMINALS

#### 3 position clip: LED block + NC

Part Number



333EDARM01



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL01
- 333EDARL01
- 333EDAGL01
- 333EDABL01
- 333EDAYL01

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM01
- 333EDARM01
- 333EDAGM01
- 333EDABM01
- 333EDAYM01

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

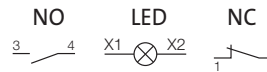
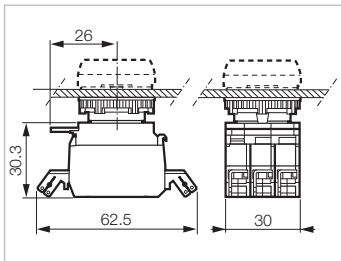
- 333EDAWH01
- 333EDARH01
- 333EDAGH01
- 333EDABH01
- 333EDAYH01

### FASTON TERMINALS

#### 3 position clip: NO + LED block + NC



333EDARL11



#### 12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL11
- 333EDARL11
- 333EDAGL11
- 333EDABL11
- 333EDAYL11

#### 130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM11
- 333EDARM11
- 333EDAGM11
- 333EDABM11
- 333EDAYM11

#### 230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWH11
- 333EDARH11
- 333EDAGH11
- 333EDABH11
- 333EDAYH11

# Technical Specifications

## ▶ GENERAL

Characteristics	Data	Standards
▶ Storage temperature	- 40 °C to + 70 °C	
▶ Operating temperature	- 25 °C to + 70 °C	
▶ Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
▶ Degree of protection	IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529    NEMA standard
▶ Protection against mechanical impacts	IK 05 illuminated and non-illuminated heads IK 07 empty control station	IEC 62262
▶ Electrical insulation	Class II - heads and control station	IEC 60947-5-1
▶ Terminal marking		IEC 60947-1
▶ Tightening torques	Locking ring: recommended 3 N.m terminals: max. 1.2 N.m	
▶ Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
▶ Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6



# Technical Specifications

## ▶ HEADS

Characteristics	Data	Standards
▶ Mechanical endurance	Spring return: 5,000,000 Push-push: 500,000 Selector switches: 300,000 Mushroom head maintained function EN 418: 10,000 Mushroom head maintained function: 150,000	
▶ Activation force in N	Spring return + NO: 6.5 Spring return + NC: 4.5 Additional NO contact: 4.5 Additional NC contact: 3.0 Push-pull mushroom head + NO + NC: 27 Push-turn mushroom head + NO + NC: 22 Push-pull mushroom head EN 418 + NO + NC: 37 Push-turn mushroom head EN 418 + NO + NC: 60	
▶ Activation force in Nm	Selector switch + NO: 0.04 Additional NO contact: 0.03	

## ▶ EMERGENCY STOP ACTUATORS - EN 418/ISO 13850:

According to IEC/EN60947-5-5, the emergency stop function can be provided by an EN418/ISO13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our EN418/ISO13850 mushroom heads is so designed that a "push" action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an "emergency stop" signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull and turn or unlocking by key).

This function allows to generate an "emergency stop" signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

The EN418/ISO13850 mushroom heads also comply with the safety requirements detailed in standards EN418 and ISO13850.

# Technical Specifications

## ▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data	Standards																																						
▶ Rated insulation voltage	690 V AC 600 V AC	IEC/EN 60947-1 UL 508																																						
▶ NC contacts	Positive opening	IEC/EN 60947-5-1																																						
▶ Rated impulse voltage U <sub>imp</sub> Pollution degree	6kV 3																																							
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2.5 A	IEC 60947-5-1																																						
▶ Electrical ratings	<p><b>Alternating current</b> AC15 - A 600 U<sub>e</sub> = 120 V, I<sub>e</sub> = 6 A U<sub>e</sub> = 240 V, I<sub>e</sub> = 3 A U<sub>e</sub> = 380 V, I<sub>e</sub> = 1.9 A U<sub>e</sub> = 480 V, I<sub>e</sub> = 1.5 A U<sub>e</sub> = 500 V, I<sub>e</sub> = 1.4 A U<sub>e</sub> = 600 V, I<sub>e</sub> = 1.2 A</p> <p><b>Minimum operating current</b> - standard blocks U<sub>e</sub> = 24 V DC and I<sub>e</sub> = 5 mA Failure rate &lt; 10<sup>-8</sup></p> <p><b>UL508</b> Alternating Current 50/60Hz - <b>A600</b> Continuous Current - 10 amps Rated Voltage - 600Vac</p> <table border="1"> <thead> <tr> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> </tr> <tr> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>60</td> <td>10</td> </tr> <tr> <td>120</td> <td>60</td> <td>6.0</td> </tr> <tr> <td>240</td> <td>30</td> <td>3.0</td> </tr> <tr> <td>480</td> <td>15</td> <td>1.5</td> </tr> <tr> <td>600</td> <td>12</td> <td>1.2</td> </tr> </tbody> </table>	Voltage	Max. Amps		Make	Break	72	60	10	120	60	6.0	240	30	3.0	480	15	1.5	600	12	1.2	<p><b>Direct current</b> DC13 - Q 600 U<sub>e</sub> = 125 V, I<sub>e</sub> = 0.55 A U<sub>e</sub> = 250 V, I<sub>e</sub> = 0.27 A U<sub>e</sub> = 400 V, I<sub>e</sub> = 0.15 A U<sub>e</sub> = 500 V, I<sub>e</sub> = 0.13 A U<sub>e</sub> = 600 V, I<sub>e</sub> = 0.1 A</p> <p>- gold plated contacts U<sub>e</sub> = 5 V DC and I<sub>e</sub> = 1 mA Failure rate &lt; 10<sup>-8</sup></p> <p><b>Direct Current - Q600</b> Continuous Current - 2.5 amps Rated Voltage - 600Vdc</p> <table border="1"> <thead> <tr> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> </tr> <tr> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>125</td> <td>0.55</td> <td>0.55</td> </tr> <tr> <td>250</td> <td>0.27</td> <td>0.27</td> </tr> <tr> <td>301-600</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table>	Voltage	Max. Amps		Make	Break	24	2.5	2.5	125	0.55	0.55	250	0.27	0.27	301-600	0.10	0.10	IEC 60947-5-1
Voltage	Max. Amps																																							
	Make	Break																																						
72	60	10																																						
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250	0.27	0.27																																						
301-600	0.10	0.10																																						
▶ Electrical operating life	<p><b>1 million cycles for:</b> - AC15 - B 300 U<sub>e</sub> = 120 V, I<sub>e</sub> = 3 A U<sub>e</sub> = 240 V, I<sub>e</sub> = 1.5 A</p> <p>- DC13 - R 300 U<sub>e</sub> = 125 V, I<sub>e</sub> = 0.22 A U<sub>e</sub> = 250 V, I<sub>e</sub> = 0.1 A</p>																																							
▶ Applicable wire sizes	<p>Rigid or flexible wire without ferrule: 0.5 mm<sup>2</sup> to 2 x 2.5 mm<sup>2</sup> Rigid or flexible wire with ferrule: 0.5 mm<sup>2</sup> to 2 x 1.5 mm<sup>2</sup></p>																																							

# Technical Specifications

## ▶ CONTACT BLOCKS

Faston connection	Data	Standards																																																
▶ Rated insulation voltage	320 V AC 300 V AC	IEC/EN60947-1 UL 508																																																
▶ NC contacts	Positive opening	IEC/EN 60947-5-1																																																
▶ Rated impulse withstanding voltage Uimp Pollution degree	6 kV 3																																																	
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2.5 A	IEC 60947-5-1																																																
▶ Electrical ratings	<p><b>Alternating current</b> AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A</p> <p><b>Direct current</b> DC13 - Q 300 Ue = 125 V, Ie = 0.55 A Ue = 250 V, Ie = 0.27 A</p> <p><b>Minimum current of use</b> Ue = 24 V DC and Ie = 5 mA Failure rate &lt; 10<sup>-8</sup></p> <p><b>UL508</b></p> <table border="0"> <tr> <td colspan="3">Alternating Current 50/60Hz - <b>A300</b></td> <td colspan="3">Direct Current - <b>Q300</b></td> </tr> <tr> <td colspan="3">Continuous Current - 10 amps</td> <td colspan="3">Continuous Current - 2.5 amps</td> </tr> <tr> <td colspan="3">Rated Voltage - 300Vac</td> <td colspan="3">Rated Voltage - 300Vdc</td> </tr> <tr> <td></td> <td>Max. Amps</td> <td>Max. Amps</td> <td></td> <td>Max. Amps</td> <td>Max. Amps</td> </tr> <tr> <td>Voltage</td> <td>Make</td> <td>Break</td> <td>Voltage</td> <td>Make</td> <td>Break</td> </tr> <tr> <td>72</td> <td>60</td> <td>10</td> <td>24</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>120</td> <td>60</td> <td>6.0</td> <td>125</td> <td>0.55</td> <td>0.55</td> </tr> <tr> <td>240</td> <td>30</td> <td>3.0</td> <td>250</td> <td>0.27</td> <td>0.27</td> </tr> </table>	Alternating Current 50/60Hz - <b>A300</b>			Direct Current - <b>Q300</b>			Continuous Current - 10 amps			Continuous Current - 2.5 amps			Rated Voltage - 300Vac			Rated Voltage - 300Vdc				Max. Amps	Max. Amps		Max. Amps	Max. Amps	Voltage	Make	Break	Voltage	Make	Break	72	60	10	24	2.5	2.5	120	60	6.0	125	0.55	0.55	240	30	3.0	250	0.27	0.27	IEC 60947-5-1
Alternating Current 50/60Hz - <b>A300</b>			Direct Current - <b>Q300</b>																																															
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▶ Electrical operating life	<p><b>1 million cycles for:</b></p> <p>- AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1.5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A</p>																																																	
▶ Faston size	6.35 mm (0.25") or 2 x 2.8 mm (0.110")																																																	

# Technical Specifications

## ▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data	Standards																																																
▶ Rated insulation voltage	250 V AC 250 V AC	IEC/EN60947-1 UL 508																																																
▶ NC contacts	Positive opening	IEC/EN 60947-5-1																																																
▶ Rated impulse withstanding voltage Uimp Pollution degree	4 kV 3																																																	
▶ Conventional thermal current in free air conditions	AC 15: 5 A DC 13: 1 A	IEC 60947-5-1																																																
▶ Electrical ratings	<p><b>Alternating current</b> AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1.5 A</p> <p><b>Direct current</b> DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A</p> <p><b>Minimum current of use</b> - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate &lt; 10<sup>-8</sup></p> <p>- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate &lt; 10<sup>-8</sup></p> <p><b>UL508</b></p> <table border="0"> <tr> <td colspan="3">Alternating Current 50/60Hz - <b>B300</b></td> <td colspan="3">Direct Current - <b>R300</b></td> </tr> <tr> <td colspan="3">Continuous Current - 5 amps</td> <td colspan="3">Continuous Current - 1 amp</td> </tr> <tr> <td colspan="3">Rated Voltage - 300Vac</td> <td colspan="3">Rated Voltage - 300Vdc</td> </tr> <tr> <td></td> <td>Max. Amps</td> <td>Max. Amps</td> <td></td> <td>Max. Amps</td> <td>Max. Amps</td> </tr> <tr> <td>Voltage</td> <td>Make</td> <td>Break</td> <td>Voltage</td> <td>Make</td> <td>Break</td> </tr> <tr> <td>72</td> <td>30</td> <td>5.0</td> <td>24</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>120</td> <td>30</td> <td>3.0</td> <td>125</td> <td>0.22</td> <td>0.22</td> </tr> <tr> <td>240</td> <td>15</td> <td>1.5</td> <td>250</td> <td>0.11</td> <td>0.11</td> </tr> </table>	Alternating Current 50/60Hz - <b>B300</b>			Direct Current - <b>R300</b>			Continuous Current - 5 amps			Continuous Current - 1 amp			Rated Voltage - 300Vac			Rated Voltage - 300Vdc				Max. Amps	Max. Amps		Max. Amps	Max. Amps	Voltage	Make	Break	Voltage	Make	Break	72	30	5.0	24	1.0	1.0	120	30	3.0	125	0.22	0.22	240	15	1.5	250	0.11	0.11	IEC 60947-5-1 IEC 60947-5-4
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▶ Pin diameter	∅ 1 mm																																																	

# Technical Specifications

## ▶ LED BLOCKS FOR ILLUMINATED HEADS

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC/EN 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 70) 3	IEC/EN 60947-1
▶ Operating voltage	12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red and yellow: 100 000 hours at 25 °C Other colors: 50 000 hours at 25 °C	
▶ Consumption of LED blocks	Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%	

## ▶ ONE PIECE PILOT LIGHT BA9S

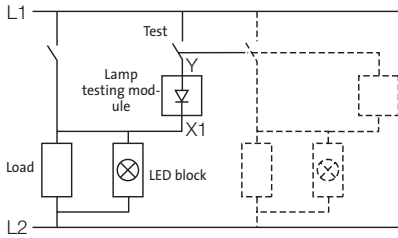
Characteristics	Data	
▶ Rated insulation voltage	400 V	IEC 60947-5-1
▶ Rated impulse withstand voltage Uimp	4 kV	IEC/EN 60947-1
▶ Bulb rating	400 V max. - 2.6 W max. 240 V max. - 2.6 W max.	IEC 60947-5-1 UL 508

# Technical Specifications

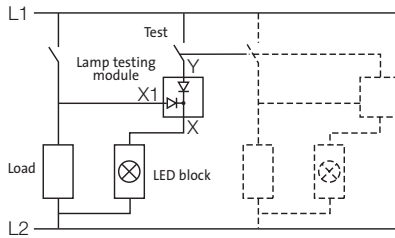
## ▶ DIAGRAMS

### PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

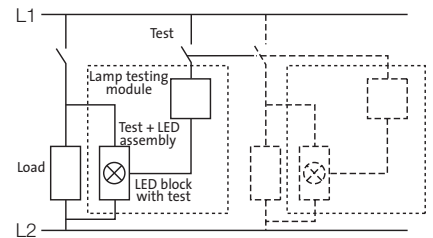
Lamp-testing module with 1 diode (33ET) for direct supply 24 V and 48 V



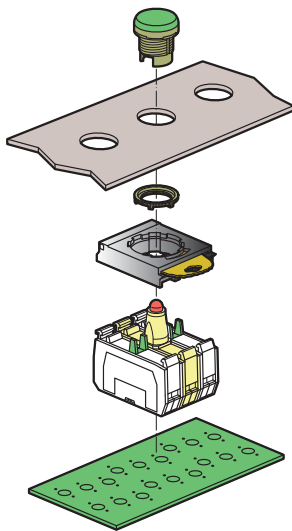
Lamp-testing module with 2 diodes (33ETT) for direct supply 24 V and 48 V



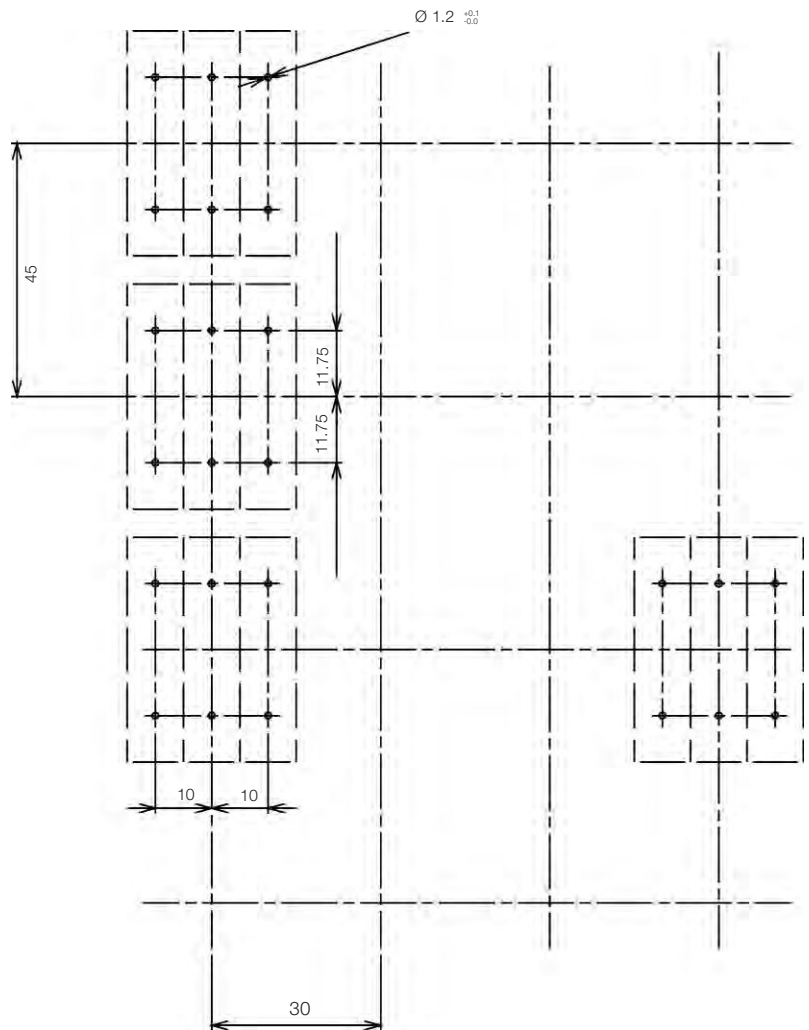
Lamp-testing assembly for direct supply 130 V and 240 V



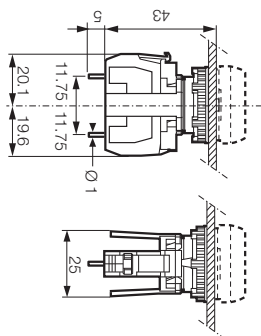
### PRINTED CIRCUIT BOARD MOUNTING



### PCB BOARD DRILL PLAN



### PCB TERMINAL - SINGLE CLIP



### PCB TERMINAL - 3 POSITION CLIP

