The CSW-Series is a versatile combination switch featuring a multi-position rotary, a three-position lever, and momentary pushbutton functions. This compact switch offers superior current ratings, IP67 sealing protection, customizable legends and it is compatible with a variety of popular connectors. Together, these features make the CSW-Series cost-effective, easy to install, and well suited for a variety of commercial and recreational vehicles; and lawn and garden equipment.

**Product Highlights:**
- Sealed to IP67 for Above-Panel Components
- Multiple Functions
- Compact Design
- Easy Installation

**Typical Applications:**
- Commercial Vehicles
- Recreational Vehicles
- Lawn & Garden Equipment
- Any Application Requiring Sealing Protection

**Resources:**
- Configure a Complete Part
- Download CAD & Sales Drawing
- Watch Product Video
CSW-Series
DESIGN FEATURES

LEGENDS
Customizable pad printed images

PUSHBUTTON CIRCUIT
Momentary switch, 10A max

TERMINATION
Choose from flying leads or several available connectors

ROTARY CONTROL CIRCUIT
4 positions; 15A max

LEVER CONTROL CIRCUIT
3 positions; 15A max
**Electrical**

**Contact Rating**
- Pushbutton: 10A 12V
- Lever: 15A 12V
- Rotary: 15A 12V

**Withstand High Voltage**
- ISO 16750-2 4.11, 500Vrms (50Hz to 60 Hz) with a duration of 60s

**Insulation Resistance**
- Minimum 5000MΩ for 1 min @ 500VDC between terminals & housing

**Life**
- Up to 18000 cycles, temperature dependent

**Contact**
- AgSnO2

**Terminals**
- Copper Alloy, in connector

**Voltage Requirement**
- 12 VDC

**Operating Voltage**
- 9 – 16 VDC

**Physical**

**Function**
- Pushbutton switch, rotary control switch, lever control switch

**Seals**
- Silicone

**Mounting**
- Front panel mount, see dimensional specifications page

**Base**
- PC+ABS

**Actuator**
- PC+ABS

**Bracket**
- Glass-filled Nylon PA6

**Connector**
- Can be customized

<table>
<thead>
<tr>
<th>Connector Part Number</th>
<th>Mating Connector Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DJ7101-6.3-21</td>
<td>DJ7101-6.3-11</td>
</tr>
<tr>
<td>DJ7101-2.3-11</td>
<td>DJ7101-2.3-21</td>
</tr>
<tr>
<td>DJ0116-6.3-11</td>
<td>DJ0116-6.3-21</td>
</tr>
<tr>
<td>DJ7091Y-2.3-11</td>
<td>DJ7091Y-2.3-21</td>
</tr>
<tr>
<td>TE:174657-2</td>
<td>TE:174655-2</td>
</tr>
<tr>
<td>DJ7091Y-2.3-21</td>
<td>DJ7091Y-2.3-11</td>
</tr>
</tbody>
</table>

**Actuation force**
- Pushbutton: 16 ± 2 N
- Lever: 0.28 ± 0.05 N.m
- Rotary: 0.33 ± 0.05 N.m

**Weight**
- Approx. 0.2 lbs [91g]

**Depth behind panel**
- 1.10” [28.5 mm]
  (to bottom of header)

**Environmental**

**Operating Temperature**
- -40°C to +85°C

**Vibration**
- Random test IEC 60068-2-64:
  - Random excitation at 10, 150, 220 and 350 Hz breakpoint frequencies, 5 hours in each axis, gn=5g.
  - General IEC 60068-2-6: Swept sine wave from 5-500Hz, +/-15mm amplitude, gn=5g, 20 cycles in each plane, 15 min/cycle.
  - Resonance IEC 60068-2-6:
    - Sinusoidal from 10-2000Hz, 5 minutes at resonant point, gn=5g.

**Shock**
- IEC 60608-2-27, 3 shocks in each axis (18 total) with 50g acceleration for 11ms pulse duration.

**Handling/Drop**
- Free drop from 1000mm height, no breakage after 3 drops

**Thermal Cycle**
- IEC 60068-2-14 Test Nb, -40°C to +85°C 2 cycles of 8 hours each

**Salt Spray**
- IEC 60068-2-52 Test Kb, severity level 4 (14 days)

**Thermal Shock**
- IEC 60068-2-14 Test Na, -40°C to +85°C 1 hour per cycle (30 minutes at each temperature) for 10 cycles

**Humidity Cycle**
- IEC 60068-2-30 Test Db, 6 cycles

**Hot soak**
- IEC 60068-2-2, 85°C for 96 hours

**Cold soak**
- IEC 60068-2-1, Test Bb, -40°C for 96 hours

**Humidity soak**
- IEC 60068-2-78, Test Cab, 30°C & RH 93% for 240 hours

**Corrosion/Chemical Splash**
- ISO 16750-5, for engine oil, hydraulic oil, diesel fuel, grease and urea at 85°C & RH 60%.

**Sealing**
- IP67, for above-panel components of the actual switch

**UV protection**
- ISO 4982-2, 1000hr Xenon Arc, 0.51W/m² nm at 340nm, per cycle 102mins light / 18mins light and spray, BP temp. 65°C, air temp. 38°C, RH50%

---

*Manufacturer reserves the right to change product specification without prior notice.*

GPS-0015 Rev. C
**CSW-Series - Combination Switch - Ordering Scheme**

### 1 SERIES
**CSW** - CSW-Series Combination Switch

### 2 PUSHBUTTON CIRCUIT
1. Momentary On Single Pole

### 3 ROTARY CONTROL CIRCUIT
A. 4 Positions

### 4 LEVER CONTROL CIRCUIT
1. On-Off-On Single Pole

### 5 RATINGS
A. Pushbutton: 10A @ 12VDC  
   Rotary: 15A @ 12VDC  
   Lever: 15A @ 12VDC

### 6 CONNECTORS

<table>
<thead>
<tr>
<th>Connector Manufacturer</th>
<th>Manufacturer Part Number of Terminals Sealed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0³ None</td>
<td>N/A N/A N/A</td>
</tr>
<tr>
<td>1 Boer Electrical</td>
<td>DJ7101-6.3-21 10 No</td>
</tr>
<tr>
<td>2¹ Yueqing Jinhai</td>
<td>DJ7101-2.3-11 10 No</td>
</tr>
<tr>
<td>3 Coly</td>
<td>DJ70116-6.3-11 1 No</td>
</tr>
<tr>
<td>4 TE Connectivity</td>
<td>TE: 174657-2 10 Yes</td>
</tr>
<tr>
<td>5 Boer Electrical</td>
<td>DJ7091Y-2.3-21 9 Yes</td>
</tr>
</tbody>
</table>

* Note: Or Equivalent

### 7 ROTARY ORIENTATION
A. Left  
B. Right

### 8 WIRE
1. 9 Wires: 6.30 inches [160 mm]  
2. 9 Wires: 8.26 inches [210 mm]  
3. 9 Wires: 11.40 inches [290 mm]  
   1 Wire: 12.60 inches [320 mm]

**9 LEGEND**

<table>
<thead>
<tr>
<th>Legend Code</th>
<th>Legend Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>No Legend</td>
</tr>
<tr>
<td>001</td>
<td>Legend 1</td>
</tr>
<tr>
<td>002</td>
<td>Legend 2</td>
</tr>
<tr>
<td>003</td>
<td>Legend 3</td>
</tr>
<tr>
<td>004</td>
<td>Legend 4</td>
</tr>
<tr>
<td>XXX</td>
<td>Custom Legends</td>
</tr>
</tbody>
</table>

Consult factory for additional legends.

**Notes:**
1. Must use selection 3 from box 8.  
2. Selection 2 from box 6 only.  
3. Must use selection 1 from box 8.
Dimensional Specifications: in. [mm]

<table>
<thead>
<tr>
<th>SWITCH POSITION</th>
<th>TERMINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

THE WIRE COLOR

<table>
<thead>
<tr>
<th>WIRE NO.</th>
<th>WIRE COLOR</th>
<th>WIRE NO.</th>
<th>WIRE COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PURPLE</td>
<td>6</td>
<td>RED</td>
</tr>
<tr>
<td>2</td>
<td>GREEN</td>
<td>7</td>
<td>GRAY</td>
</tr>
<tr>
<td>3</td>
<td>BLACK</td>
<td>8</td>
<td>BROWN</td>
</tr>
<tr>
<td>4</td>
<td>YELLOW</td>
<td>9</td>
<td>BLUE</td>
</tr>
<tr>
<td>5</td>
<td>WHITE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CLAU-0158 Rev. B
Authorized Sales Representatives and Distributors

Click on a region of the map below to find your local representatives and distributors or visit www.carlingtech.com/findarep.

About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

To view all of Carling’s environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications