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.

<table>
<thead>
<tr>
<th>Pole</th>
<th>Amps</th>
<th>VDC</th>
<th>IP67 Sealing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>12</td>
<td>for above-panel components</td>
</tr>
</tbody>
</table>

**Typical Applications**

- Commercial Vehicles
- Recreational Vehicles
- Lawn & Garden Equipment
- Any Application Requiring Sealing Protection
Design Features

- **LEVER CONTROL CIRCUIT**: 3 positions; 15A max
- **ROTARY CONTROL CIRCUIT**: 4 positions; 15A max
- **TERMINATION**: Choose from flying leads or several available connectors
- **LEGENDS**: Customizable pad printed images
- **PUSHBUTTON CIRCUIT**: Momentary switch, 10A max
### Tech Specs

#### Electrical

| Contact Rating          | Pushbutton: 10A 12V  
|                        | Lever: 15A 12V  
|                        | Rotary: 15A 12V  
| Withstand High Voltage | ISO 16750-2 4.11, 500Vrms (50Hz to 60Hz) 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  
| **Connector Part Number**     | **Mating Connector Part Number**  
| DJ7101-6.3-2I                 | DJ7101-6.3-11  
| DJ7101-2.3-11                 | DJ7101-2.3-21  
| DJ0116-6.3-11                 | DJ0116-6.3-21  
| DJ7091Y-2.3-11                | DJ7091Y-2.3-21  
| TE174657-2                    | TE174655-2  
| DJ7091Y-2.3-21                | DJ7091Y-2.3-11  
| 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 Temp.       | -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 60068-2-27, 3 shocks in each axis (18 total) with 50g acceleration for 1ms 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    | ISO 16750-5, for engine oil, hydraulic oil, diesel fuel, grease and urea at 85°C & RH 80%  
| Sealing               | IP67, for above-panel components of the actual switch  
| UV protection         | ISO 4965-2, 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.*
 Ordering Scheme

Sample Part Number  CSW  -  1 A 1 A 1 A 1 - 000

1. SERIES
CSW  CSW-Series Combination Switch

2. PUSHBUTTON CIRCUIT
1  Momentary (ON)-OFF Single Pole
2 1  Maintained ON-OFF

3. ROTARY CONTROL CIRCUIT
A  4 Positions
B  3 Positions (Position 2 OFF)
C  2 Positions
D 2  3 Positions (Position 1 OFF)

4. LEVER CONTROL CIRCUIT
1  ON-OFF-ON Single Pole
2  None

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</th>
<th>Number of Terminals</th>
<th>Sealed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0  None</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1  Boer Electrical</td>
<td>DJ7101-6.3-21</td>
<td>10</td>
<td>No</td>
</tr>
<tr>
<td>2  Yueqing Jinhai</td>
<td>DJ7101-2.3-11</td>
<td>10</td>
<td>No</td>
</tr>
<tr>
<td>3  Only</td>
<td>DJ7091Y-2.3-11</td>
<td>9</td>
<td>Yes</td>
</tr>
<tr>
<td>4  TE Connectivity</td>
<td>TE: 174657-2</td>
<td>10</td>
<td>Yes</td>
</tr>
<tr>
<td>5  Boer Electrical</td>
<td>DJ7091Y-2.3-21</td>
<td>9</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Note: Or equivalent

7. ROTARY ORIENTATION
A  Left
B  Right

8. WIRE
1  Varies:  6.30 inches [160 mm]
2  Varies:  8.26 inches [210 mm]
3  9 Wires:  11.40 inches [290 mm]

9. LEGENDS
000  No Legend
001  Legend 1
002  Legend 2
003  Legend 3
004  Legend 4
005  Legend 5
006  Legend 6
007  Legend 7
008  Legend 8
009  Legend 9
010  Legend 10
011  Legend 11
012  Legend 12
XXX  Custom Legends
Consult factory for additional legends.

Notes:
1  Must use selection 8 from box 7
2  Must use selection 1 from box 4
3  Must use selection 3 from box 8
4  Must use selection 2 from box 6

Configure Complete Part Number >
Ordering Scheme Legend Artwork

9. LEGENDS

001

002

003

004

005

006

007

008

009

010

011

012

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

inches [millimeters]

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>

SWITCH WIRING DIAGRAM

SWITCH POSITION TEMIMAL

SWITCH POSITION TEMIMAL

LEGEND SHOWN HERE IS ONLY AN EXAMPLE
LEGEND MAY VARY BASED ON REQUEST

PANEL CUTOUT

*Manufacturer reserves the right to change product specification without prior notice.
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To view all of Carling’s environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications.