

CSW-Series

Combination Switch





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.

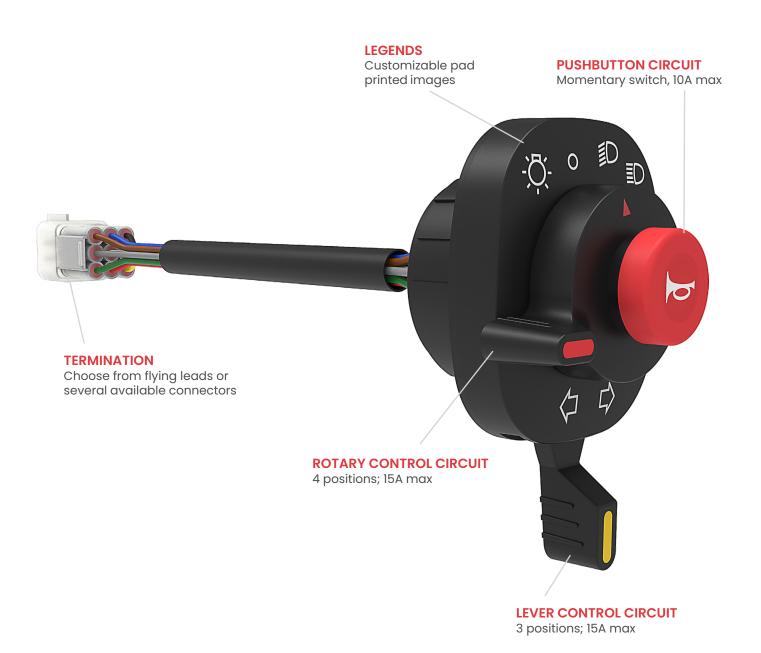
IP67 Sealing 10-15 12 VDC Pole **Amps**

Typical Applications

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



Design Features



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 60 Hz) with a duration of 60s
Insulation Resistance	Minimum 5000MΩ for 1 min @ 500VDC between terminals & housing
Life	30,000 cycles (6,000 cycles at -40°C, 18,000 cycles at ambient, 6,000 cycles at 85°C).
Contact	AgSnO2
Terminals	Copper Alloy, in connector
Voltage Requirement	12 VDC
Operating Voltage	9 – 16 VDC

Physical

DJ0116-6.3-11

DJ7091Y-2.3-11

DJ7091Y-2.3-21

TE:174657-2

/		
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	
DJ7101-6.3-21	DJ7101-6.3-11	
DJ7101-2.3-11	DJ7101-2.3-21	

DJ0116-6.3-21

TE:174655-2

DJ7091Y-2.3-21

DJ7091Y-2.3-11

Actuation force	Pushbutton: Momentary (ON)-OFF Single Pole: 17.3+/-3.5 N Maintained ON-OFF: 14.5+/-1.5 N Rotary Control: 0.42+/-0.20 N.m Lever Control: 0.13+/-0.06 N.m
Weight	Approx. 0.2 lbs [91g]
Depth behind panel	1.10" [28.5 mm] (to bottom of header)

Environmental

andom test IEC 60068-2-64: andom excitation at 10,150, 220 nd 350 Hz breakpoint equencies, 5 hours in each axis, n=5g.General IEC 60068-2-6: wept sine wave from 5-500Hz, /-15mm amplitude, gn=5g, 20 ycles in each plane, 15 min/ ycle.Resonance IEC 60068-2-
Sinusoidal from 10-2000Hz, 5 ninutes at resonant point, gn=5g
C 60068-2-27, 3 shocks in each xis (18 total) with 50g cceleration for 11ms pulse uration.
ee drop from 1000mm height, o breakage after 3 drops
C 60068-2-14 Test Nb, -40°C to 85°C 2 cycles of 8 hours each
C 60068-2-52 Test Kb, severity vel 4 (14 days)
C 60068-2-14 Test Na, -40°C o +85°C 1 hour per cycle (30 ninutes at each temperature) or 10 cycles
C 60068-2-30 Test Db, 6 cycles
C 60068-2-2, 85°C for 96 hours
C 60068-2-1, Test Bb, -40°C for 6 hours
C 60068-2-78, Test Cab, 30°C & H 93% for 240 hours
O 16750-5, for engine oil, ydraulic oil, diesel fuel, grease nd urea at 85°C & RH 60%
67, for above-panel omponents of the actual switch
O 4982-2, 1000hr Xenon Arc, 51W/m2*nm at 340nm, per ycle 102mins light / 18mins light nd spray, BP temp. 65°C, air emp. 38°C, RH50%



Ordering Scheme

Part Number

1. SERIES

csw **CSW-Series Combination Switch**

2. PUSHBUTTON CIRCUIT

- Momentary (ON)-OFF Single Pole Maintained ON-OFF

3. ROTARY CONTROL CIRCUIT

- 4 Positions
- 3 Positions (Position 2 OFF) В
- 2 Positions
- 3 Positions (Position 1 OFF)

4. LEVER CONTROL CIRCUIT

- ON-OFF-ON Single Pole
- None

5. RATINGS

Pushbutton: 10A @ 12VDC Rotary: 15A @ 12VDC 15A @ 12VDC Lever:

6. CONNECTORS

	Connector	Manufacturer	Number	
	Manufacturer*	Part Number	of Terminals	<u>Sealed</u>
0	None	N/A	N/A	N/A
1	Boer Electrical	DJ7101-6.3-21	10	No
2 3	Yueqing Jinhai	DJ7101-2.3-11	10	No
		DJ70116-6.3-11	1	No
3	Cnly	DJ7091Y-2.3-11	9	Yes
4	4 TE Connectivity TE: 174657-2 10 Yes			Yes
5	Boer Electrical	DJ7091Y-2.3-21	9	Yes
* Note	* Note: Or equivalent			

7. ROTARY ORIENTATION

Left В Right

8. WIRE

1 Varies: 6.30 inches [160 mm] 8.26 inches [210 mm] 2 Varies: 9 Wires: 11.40 inches [290 mm] 1 Wire: 12.60 inches [320 mm]

9. LEGENDS see next page for legend artwork

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

- Must use selection B from box 7
- Must use selection 1 from box 4 Must use selection 3 from box 8 Must use selection 2 from box 6
- © Configure Complete Part Number >

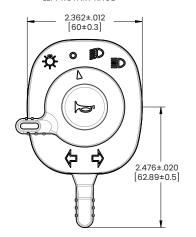
Ordering Scheme Legend Artwork

9. LEGENDS 001 002 003 004 6 O **☆** • **↓** ひ●ひ 005 006 007 800 0 b 6 む●ひ **☆** • 009 010 011 012 ID ID \triangle \triangle む●ひ む●⇩ **☆** •

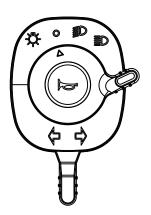
Dimensional Specs

inches [millimeters]

ROTARY KNOB OPTION 1: LEFT ROTARY KNOB



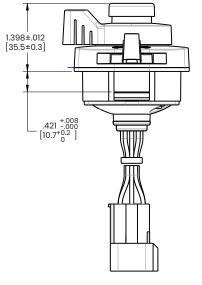
ROTARY KNOB OPTION 2: RIGHT ROTARY KNOB

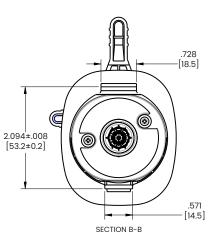


LEGEND SHOWN HERE IS ONLY AN EXAMPLE LEGEND MAY VARY BASED ON REQUEST

THE WIRE COLOR

WIRE NO.	WIRE COLOR	WIRE NO.	WIRE COLOR
1	PURPLE	6	RED
2	GREEN	7	GRAY
3	BLACK	8	BROWN
4	YELLOW	9	BLUE
5	WHITE		

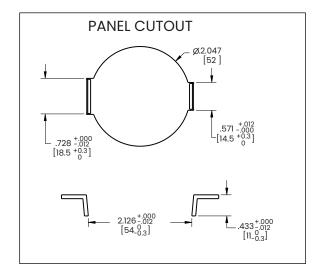




SWITCH WIRING DIAGRAM

SWITCH POSITION	TERMINAL
- \	9
0	
D	9 3
ED	9 (5)

SWITCH POSITION	TERMINAL
\(\(\)	27
\$	2 ——6
	8 —— 4



CLA-0158 Rev: B