

Automation

Pushbuttons and Pilot Lights Line Overview



Front Parts of the Command and Signaling Line - Installation Holes (Ø22 mm)

Double Pushbutton - IP66

Black Frame

Without Illumination

LETTERING

| | | |
|-------|--|-----------------|
| | | CSW2-BDF2110 WH |
| 0 | | |
| START | | CSW2-BDF21LD WH |
| STOP | | |
| START | | CSW2-BDF21SS WH |
| STOP | | |
| | | CSW2-BDF0510 WH |
| 0 | | |
| START | | CSW2-BDF05SS WH |
| STOP | | |
| + | | CSW2-BDF55PN WH |
| - | | |
| ↑ | | CSW2-BDF55FR WH |
| ↓ | | |

Illuminated

| | | |
|-------|--|------------------|
| | | CSW2-BDFI2110 WH |
| 0 | | |
| START | | CSW2-BDFI21LD WH |
| STOP | | |
| START | | CSW2-BDFI21SS WH |
| STOP | | |
| | | CSW2-BDFI0510 WH |
| 0 | | |
| START | | CSW2-BDFI05SS WH |
| STOP | | |
| + | | CSW2-BDFI55PN WH |
| - | | |
| ↑ | | CSW2-BDFI55FR WH |
| ↓ | | |

Extended Double Pushbutton - IP66

Black Frame

Without Illumination

LETTERING

| | | |
|-------|--|-----------------|
| | | CSW2-BDS21 WH |
| 0 | | |
| START | | CSW2-BDS21LD WH |
| STOP | | |
| START | | CSW2-BDS21SS WH |
| STOP | | |
| | | CSW2-BDS0510 WH |
| 0 | | |
| START | | CSW2-BDS05SS WH |
| STOP | | |

Illuminated

| | | |
|-------|--|------------------|
| | | CSW2-BDSI2110 WH |
| 0 | | |
| START | | CSW2-BDSI21LD WH |
| STOP | | |
| START | | CSW2-BDSI21SS WH |
| STOP | | |
| | | CSW2-BDSI0510 WH |
| 0 | | |
| START | | CSW2-BDSI05SS WH |
| STOP | | |

Triple Pushbutton - IP66

Black Frame

Without Illumination

| | | | |
|--------------------|-------------------|-------------------|-------------------|
| LETTERING | LETTERING | LETTERING | LETTERING |
| STOP | STOP | STOP | RESET |
| 0 | 0 | + | 0 |
| CSW2-BTF2121IIS WH | CSW2-BTF515FRD WH | CSW2-BTF515PNS WH | CSW2-BTF04510R WH |
| STOP | STOP | STOP | START |
| CSW2-BTF2121RLS WH | CSW2-BTF015FRS WH | CSW2-BTF515PND WH | RESET |
| STOP | STOP | STOP | STOP |
| CSW2-BTF2121FRS WH | CSW2-BTF015RLS WH | RESET | START |
| STOP | STOP | 0 | RESET |
| CSW2-BTF515FRS WH | CSW2-BTF212PNS WH | 0 | STOP |
| STOP | STOP | 0 | START |
| | | | RESET |
| | | | STOP |
| | | | START |
| | | | RESET |
| | | | STOP |
| | | | START |
| | | | RESET |
| | | | STOP |



Pushbuttons - IP66

Flush

- CSW-BF0 WH
- CSW-BF1 WH
- CSW-BF2 WH
- CSW-BF3 WH
- CSW-BF4 WH
- CSW-BF5 WH



Guarded

- CSW-BGA0 WH
- CSW-BGA1 WH
- CSW-BGA2 WH
- CSW-BGA3 WH
- CSW-BGA4 WH
- CSW-BGA5 WH



Extended¹⁾

- CSW-BS0 WH
- CSW-BS1 WH
- CSW-BS2 WH
- CSW-BS3 WH
- CSW-BS4 WH
- CSW-BS5 WH



Flush Illuminated Pushbutton

- CSW-BF10 WH
- CSW-BF11 WH
- CSW-BF12 WH
- CSW-BF13 WH
- CSW-BF14 WH
- CSW-BF16 WH²⁾



Extended Illuminated

- CSW-BS10 WH
- CSW-BS11 WH
- CSW-BS12 WH
- CSW-BS13 WH
- CSW-BS14 WH
- CSW-BS16 WH³⁾



Mushroom 40 mm

- CSW-BC0 WH
- CSW-BC1 WH
- CSW-BC2 WH
- CSW-BC3 WH
- CSW-BC4 WH
- CSW-BC5 WH



Mushroom with Key

- CSW-BCY0 WH
- CSW-BCY1 WH
- CSW-BCY2 WH
- CSW-BCY3 WH
- CSW-BCY4 WH
- CSW-BCY5 WH



Illuminated Mushroom

- CSW-BC10 WH
- CSW-BC11 WH
- CSW-BC12 WH
- CSW-BC13 WH
- CSW-BC14 WH
- CSW-BC16 WH⁴⁾



Emergency Stop Pushbuttons - IEC 60497-5-5, ISO 13850 (EN 418)

Turn-To-Release

- CSW-BESG WH (standard)



Pull-To-Release

- CSW-BESP WH (standard)



Key Release

- CSW-BESY WH (standard)



Front Parts of the Command and Signaling Line - Installation Holes (Ø22 mm)

Pushbuttons - IP40

Illuminated Center Piece

| LETTERING | | | LETTERING | |
|-----------|--|---------------|-----------|-------------|
| I | | CSW-BD WH | | CSW-BD10 WH |
| 0 | | | + | |
| | | | - | |
| START | | CSW-BD12SS WH | ↑ | |
| STOP | | CSW-BD05SS WH | ↓ | |
| | | CSW-BD12 WH | | |
| | | | | CSW-BD05 WH |



Main Certifications



Change-Over Switches - IP66

Knob - 2 Positions¹⁾



Fixed

- CSW-CK2F45 WH
- CSW-CK2F90 WH

Return

- CSW-CK2R45 WH
- CSW-CK2R90 WH

Lever - 2 Positions¹⁾



Fixed

- CSW-CA2F45 WH
- CSW-CA2F90 WH

Return

- CSW-CA2R45 WH
- CSW-CA2R90 WH

Knob with Key - 2 Positions¹⁾



Fixed

- CSW-CY2F45 WH
- CSW-CY2F90 WH

Return

- CSW-CY2R45 WH
- CSW-CY2R90 WH

2 Positions Illuminated Selectors



Fixed

- CSW-CK12F900 WH
- CSW-CK12F901 WH
- CSW-CK12F902 WH
- CSW-CK12F903 WH
- CSW-CK12F904 WH
- CSW-CK12F906 WH²⁾

| Diagram | | | | | | Flange |
|-----------------|---------------------------------|---|---|---|---|--------|
| Handle position | Mounting position in the flange | | | | | |
| | | - | 2 | 3 | 1 | - |
| 4 | | 2 | 5 | 1 | 3 | 5P |
| | | | | | | |
| | | | | | | |

Front Parts of the Command and Signaling Line - Installation Holes (Ø22 mm)

Change-Over Switches - IP66

Knob - 3 Positions¹⁾



Fixed

 CSW-CK3F45 WH

Return to the Center

 CSW-CK3R45 WH

Return to the Left

 CSW-CK3R45 WH

Return to the Right

 CSW-CY3R45 WH

Lever - 3 Positions¹⁾



Fixed

 CSW-CA3F45 WH

Return to the Center

 CSW-CA3R45 WH

Return to the Left

 CSW-CA3RE45 WH

Return to the Right

 CSW-CY3RD45 WH

| Diagram | | | | | | Flange |
|-----------------|---------------------------------|---|---|---|---|--------|
| Handle position | Mounting position in the flange | | | | | |
| | I | - | 2 | 3 | 1 | - |
| II | 4 | 2 | 5 | 1 | 3 | 5P |
| I | ■ | ■ | | | | |
| 0 | | | ☼ | | | |
| II | | | | ■ | ■ | |

Knob with Key - 3 Positions¹⁾



Fixed

 CSW-CY3F45 WH

Return to the Center

 CSW-CY3R45 WH

Return to the Left

 CSW-CY3RE45 WH






Return to the Right

 CSW-CY3RD45 WH







3 Positions Illuminated Selectors









Fixed

 CSW-CKI3F450 WH
 CSW-CKI3F451 WH
 CSW-CKI3F452 WH
 CSW-CKI3F453 WH
 CSW-CKI3F454 WH
 CSW-CKI3F456 WH²⁾







Return to the Center

 CSW-CKI3R450 WH
 CSW-CKI3R451 WH
 CSW-CKI3R452 WH
 CSW-CKI3R453 WH
 CSW-CKI3R454 WH
 CSW-CKI3R456 WH²⁾

Return to the Left

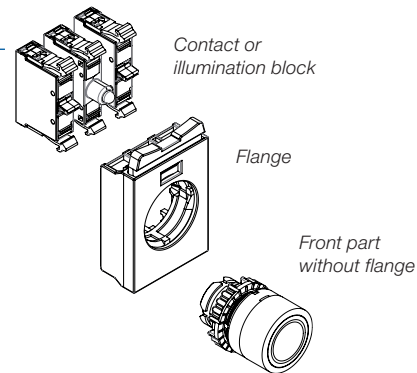
 CSW-CKI3RE450 WH
 CSW-CKI3RE451 WH
 CSW-CKI3RE452 WH
 CSW-CKI3RE453 WH
 CSW-CKI3RE454 WH
 CSW-CKI3RE456 WH²⁾

Return to the Right

 CSW-CKI3RD450 WH
 CSW-CKI3RD451 WH
 CSW-CKI3RD452 WH
 CSW-CKI3RD453 WH
 CSW-CKI3RD454 WH
 CSW-CKI3RD456 WH²⁾

How to order




- Frontal
- + Flange
- + Contact block
- + Illumination block






Pilot Lights - IP66

Pilot Lights - IP66



 CSW-SD0 WH
 CSW-SD1 WH
 CSW-SD2 WH

 CSW-SD3 WH
 CSW-SD4 WH
 CSW-SD6 WH²⁾

Notes: 1) Change-over switches in other colors, on request only;
 2) For a better performance, use a yellow LED block.

Accessories - Mounting in Flanges - Blue

Contact Blocks¹⁾



- BC01F-CSW 1 NC
- BC10F-CSW 1 NO
- BCA10F-CSW 1 NO (Early Make)
- BCR01F-CSW 1 NC (Late Break)

Self-Monitoring Contact Block



- BCM01F-CSW 1 Nc (monitoring of the mechanical assembly of the pushbuttons CSW-BES)

Illumination Blocks with Integrated LED



- CSW-BIDLF-0♦ E25 - 12 V ac/dc
- CSW-BIDLF-1♦ E26 - 24 V ac/dc
- CSW-BIDLF-2♦ E27 - 48 V ac/dc
- CSW-BIDLF-3♦ D61 - 110-130 V ac
- CSW-BIDLF-4♦ C13 - 125 V dc
- CSW-BIDLF-4♦ D66 - 220-240 V ac

Voltage Step-Down Blocks



- CSW-BRT2F Application voltage: 220 V dc. Use with LED illumination block model: CSW-BIDLF-_C13 (125 V dc)

- CSW-BRT4F Application voltage: 380-460 V ac. Use with LED illumination block model: CSW-BIDLF-_D66 (220-240 V ac)

Illumination Block Ba9s with Lamp + Resistor + Diode



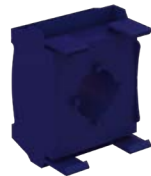
- CSW-BIRDF-D66 (Power supply 220-240 V ac)

Socket Block for Light Bulb Ba9s



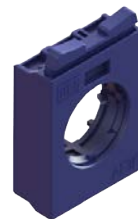
- CSW-BIDF Maximum voltage 380 V / 2 W

Push-On/Push-Off Block

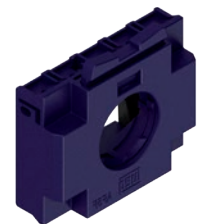


- CSW-BRF-3P
- Note: Use only with:
 - BC01F (1 NC)
 - BCA10F (1 NO - advanced)

Flange for Installation of the Contact and Illumination Blocks



- AF3F (3 positions)



- AF5F (5 positions)

Set of Door Tabs and Plastic Tabs 27 x 18 mm



- Black and red tab APP30
- APP60 (double headed pushbuttons)
- Transparent tab APP30T
- APP60T (double headed pushbuttons)

Incandescent Lamps



- L6VI-E48-0,6 W (6 V ac/dc)
- L12VI-E25-1,8 W (12 V ac/dc)
- L24VI-E26-2 W (24 V ac/dc)
- L48VI-E27-2 W (48 V ac/dc)
- L60VI-E28-1,2 W (60 V ac/dc)
- L130VI-E30-2 W (130 V ac/dc)
- L220VI-E31-2 W (220 V ac/dc)

Guard for Emergency Pushbutton



- GBES-02

Emergency Stop Plate



- APE-02

Reduction Ring Ø30 mm - Ø22 mm

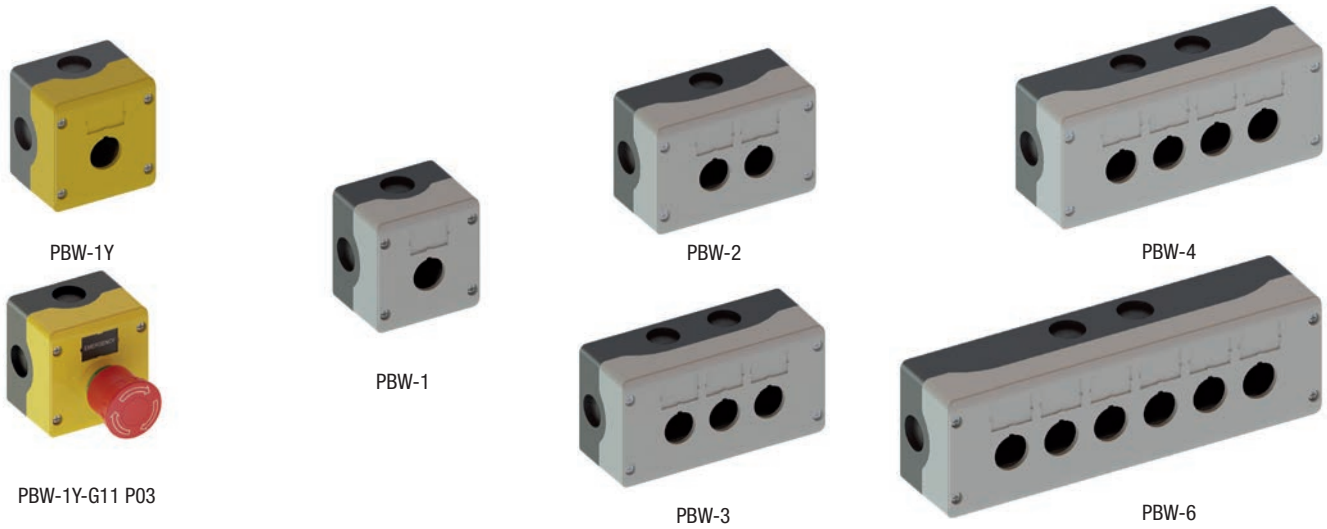


- AR30

Note: 1) Check the maximum number of contact blocks per front part on the catalog of the CSW line, model 50009820.

Front Parts of the Command and Signaling Line - Installation Holes (Ø22 mm)

Decentralized Control Stations - Hole Ø22 mm



PBW Line Accessories

Contact Block



BC01B-CSW 1 NC
BC10B-CSW 1 NO

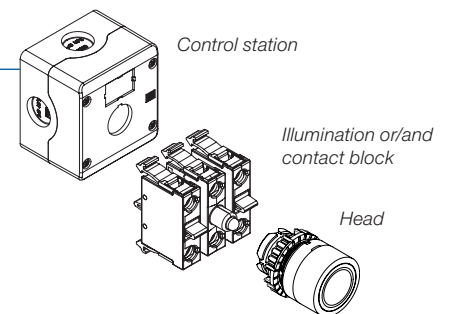
Illumination Blocks with Integrated LED



- CSW-BIDLB-0♦ E25 - 12 V ac/dc
- CSW-BIDLB-1♦ E26 - 24 V ac/dc
- CSW-BIDLB-2♦ E27 - 48 V ac/dc
- CSW-BIDLB-3♦ D61 - 110-130 V ac
- CSW-BIDLB-4♦ C13 - 125 V dc
- CSW-BIDLB-4♦ D66 - 220-240 V ac

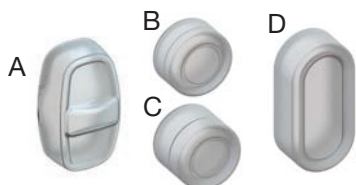
How to order

- Head
- + Illumination or/and contact block
- + Control station



Common Accessories

Pushbutton Protection



- A) APB2D (double headed pushbuttons IP66)
- A) APB2T (triple headed pushbuttons IP66)
- B) APBF (flush and diffuse signal lights)
- C) APBI (flush illuminated and extended pushbuttons)
- D) APBD (double headed pushbuttons IP40)

Hole Plug



Round plug for unused Ø22 mm holes



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- Oil Well Pumping Motors
- Pool & Spa Motors
- Brake Motors
- Compressor Duty Motors
- Farm Duty Motors
- Poultry Fan Motors
- Auger Drive Motors
- IEEE 841 Motors
- Stainless Steel Wash Down Motors
- Saw Arbor Motors
- Cooling Tower Motors
- Commercial HVAC Motors
- Pad Mounted Motors
- Vector Duty Motors

Large Electric Motors

- Low Voltage 3-phase motors up to 2,500HP
- Induction Motors up to 70,000HP and 13,200V
- Wound Rotor Systems (including starters) up to 70,000HP and 13,200V
- Synchronous Motors up to 200,000HP and 13,200V
- Explosion proof motors (Ex-d) up to 1,500kW and 11kV
- Ex-n, Ex-e, Ex-p motors

Variable Frequency Drives

- Low Voltage 1/4 to 2500HP, 230V – 480V
- Medium Voltage 500-10,000HP
- Multi-pump systems
- NEMA 4X
- Dynamic braking resistors
- Line and load reactors
- Plug and play technology
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- PLC functions integrated
- Complete line of options and accessories

Soft Starters

- 3-1500HP
- Oriented start-up
- Built-in bypass contactor
- Universal source voltage (230-575V, 50/60Hz)
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- Complete Line of options and accessories
- MV Soft-starter 3.3kV, 4.16kV: up to 3500HP, Withdrawable Power Stacks, & 8x PT100 Temperature monitoring

Controls

- Mini – Contactors
- IEC Contactors
- Thermal Overload Relays
- Manual Motor Protectors
- Molded Case Circuit Breakers
- Smart Relays
- Enclosed Starters: combination & non-combination
- Pushbuttons & Pilot Lights
- Timing & Motor Protection Relays
- Terminal Blocks

Custom Panels

- Custom configured to your specification.
- NEMA 1, 12, 3R, 4 and 4X cabinets
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- Built and engineered in North America
- Voltages < 345kV
- Ratings 5-250MVA
- Station class, oil filled, round core, copper windings
- Special configurations and designs available!
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