

Pushbuttons - Non-Illuminated - Ø22 mm - IP66

Supply: Frontal Part Only

Flush

Illustrative image	Color	Reference	Code	Weight (kg)
		White	CSW-BF0 WH	12880559
		Red	CSW-BF1 WH	12881927
		Green	CSW-BF2 WH	12882149
		Yellow	CSW-BF3 WH	12882150
		Blue	CSW-BF4 WH	12882151
		Black	CSW-BF5 WH	12882152

Guarded

Illustrative image	Color	Reference	Code	Weight (kg)
		White	CSW-BGA0 WH	12882154
		Red	CSW-BGA1 WH	12882155
		Green	CSW-BGA2 WH	12882156
		Yellow	CSW-BGA3 WH	12882157
		Blue	CSW-BGA4 WH	12882158
		Black	CSW-BGA5 WH	12882159

Extended¹⁾

Illustrative image	Color	Reference	Code	Weight (kg)
		White	CSW-BS0 WH	12882167
		Red	CSW-BS1 WH	12882208
		Green	CSW-BS2 WH	12882210
		Yellow	CSW-BS3 WH	12882211
		Blue	CSW-BS4 WH	12882212
		Black	CSW-BS5 WH	12882213

Mushroom - External Diameter: 40 mm¹⁾

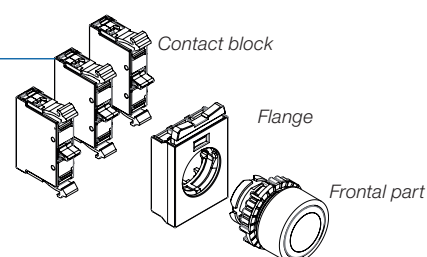
Illustrative image	Color	Reference	Code	Weight (kg)
		White	CSW-BC0 WH	12882160
		Red	CSW-BC1 WH	12882161
		Green	CSW-BC2 WH	12882162
		Yellow	CSW-BC3 WH	12882163
		Blue	CSW-BC4 WH	12882164
		Black	CSW-BC5 WH	12882166

Mushroom - External Diameter: Ø42 mm for Heavy Duty (Heavy Duty)

Illustrative image	Color	Reference	Code	Weight (kg)
		Red	CSW-BCHD1-WH	14571710
		Green	CSW-BCHD2-WH	14571712

How to Order²⁾

- Frontal part
- + Flange
- + Contact block






















Notes: 1) They do not allow the use of contact blocks in the center of the flange.

2) Check the maximum number of contact blocks recommended for each frontal part on page 53.
















Pushbuttons - Non-Illuminated - Ø22 mm - IP66

Supply: Frontal Part Only

Flush Double Pushbutton¹⁾

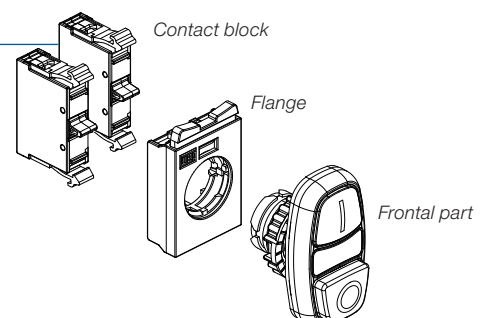
Illustrative image	Frontal part	Color	Engraving	Reference	Code	Weight (kg)
	Flush		Green	I	CSW2-BDF21IO WH	12724261
	Flush		Red	0		
	Flush		Green	START	CSW2-BDF21LD WH	12914942
	Flush		Red	STOP		
	Flush		Green	START	CSW2-BDF21SS WH	12905152
	Flush		Red	STOP		
	Flush		Green	No engraving	CSW2-BDF21 WH	12905153
	Flush		Red	No engraving		
	Flush		White	I	CSW2-BDF05IO WH	12905154
	Flush		Black	0		
	Flush		White	START	CSW2-BDF05SS WH	12905156
	Flush		Black	STOP		
	Flush		White	No engraving	CSW2-BDF05 WH	12905157
	Flush		Black	No engraving		
	Flush		Black	+	CSW2-BDF55PN WH	12905179
	Flush		Black	-		
	Flush		Black	↑	CSW2-BDF55FR WH	12905181
	Flush		Black	↓		

Extended Double Pushbutton¹⁾

Illustrative image	Frontal part	Color	Engraving	Reference	Code	Weight (kg)
	Flush		Green	I	CSW2-BDS21IO WH	12724178
	Extended		Red	0		
	Flush		Green	START	CSW2-BDS21LD WH	12914944
	Extended		Red	STOP		
	Flush		Green	START	CSW2-BDS21SS WH	12905187
	Extended		Red	STOP		
	Flush		Green	No engraving	CSW2-BDS21 WH	12905208
	Extended		Red	No engraving		
	Flush		White	I	CSW2-BDS05IO WH	12905209
	Extended		Black	0		
	Flush		White	START	CSW2-BDS05SS WH	12905210
	Extended		Black	STOP		
	Flush		White	No engraving	CSW2-BDS05 WH	12905211
	Extended		Black	No engraving		

How to Order²⁾

- Frontal part
- + Flange
- + Contact block

























Notes: 1) They do not allow the use of contact blocks in the center of the flange.
2) Check the maximum number of contact blocks recommended for each frontal part on page 53.

Pushbuttons with Latch - Non-Illuminated - Ø22 mm - IP66

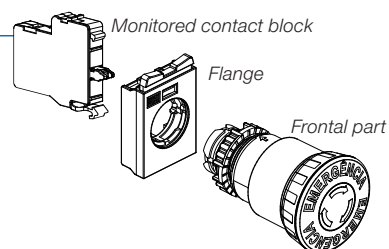
Supply: Frontal Part Only

Emergency Stop - ISO 13850 (EN 418) and IEC 60947-5-5 - External Diameter: 42 mm

Illustrative image	Description	Signaling	Color		Reference	Code	Weight (kg)
	Pull-to-release	-		Red	CSW-BESP WH	12882459	0.049
	Twist-to-release	-		Red	CSW-BESG WH	12882447	
	Yale key release ¹⁾	-		Red	CSW-BESY WH	12882461	0.114
	455 key release	-		Red	CSW-BESW WH	15687773	0.114
	Pull-to-release	Side		Red	CSW-BESPS WH	12882463	0.049
	Twist-to-release	Side		Red	CSW-BESGS WH	12882462	
	Yale key release ¹⁾	Side		Red	CSW-BESYS WH	12882464	0.114
	455 key release	Side		Red	CSW-BESWS WH	15687774	0.114
	Pull-to-release with round engraving EMERGENCY	-		Red	CSW-BESP48 WH	12932074	0.049
	Twist-to-release with round engraving EMERGENCY	-		Red	CSW-BESG46 WH	13034654	
	Pull-to-release with round engraving EMERGENCY	Side		Red	CSW-BESPS48 WH	13553037	

How to Order²⁾

- Frontal part
- + Flange
- + Contact block

















Notes: 1) Other colors and functions on request.

2) Check the maximum number of contact blocks recommended for each frontal part on page 53.

Pushbuttons with Latch - Non-Illuminated - Ø22 mm - IP66

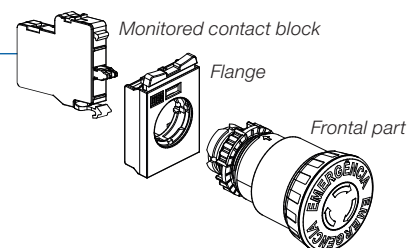
Supply: Frontal Part Only

Monitored Emergency Stop - ISO 13850 (EN 418) and IEC 60947-5-5 - External Diameter: 42 mm

Illustrative image	Description	Signaling	Color		Reference	Code	Weight (kg)
	Pull-to-release	-		Red	CSW-BESPM WH	13268409	0.049
	Twist-to-release	-		Red	CSW-BESGM WH	13268381	
	Yale key release ¹⁾	-		Red	CSW-BESYM WH	13274097	0.114
	455 key release	-		Red	CSW-BESWM WH	15687775	0.114
	Pull-to-release	Side		Red	CSW-BESPSM WH	13277427	0.049
	Twist-to-release	Side		Red	CSW-BESGSM WH	13277423	
	Com chave ¹⁾	Side		Red	CSW-BESYSM WH	13277425	0.114

How to Order²⁾

- Frontal part
- + Flange
- + Contact block



Notes: 1) Keys with different combinations on request only.

2) Check the maximum number of contact blocks recommended for each frontal part on page 53.

Pushbuttons - Illuminated - Ø22 mm - IP66

Supply: Frontal Part Only

Flush Double Pushbutton¹⁾²⁾³⁾

Illustrative image	Frontal part	Color	Engraving	Reference	Code	Weight (kg)
	Flush		Green	I	CSW2-BDFI2110 WH	12756258
	Flush		Red	0		
	Flush		Green	START	CSW2-BDFI21LD WH	12914943
	Flush		Red	STOP		
	Flush		Green	START	CSW2-BDFI21SS WH	12904803
	Flush		Red	STOP		
	Flush		Green	No engraving	CSW2-BDFI21 WH	12904818
	Flush		Red	No engraving		
	Flush		White	I	CSW2-BDFI0510 WH	12904819
	Flush		Black	0		
	Flush		White	START	CSW2-BDFI05SS WH	12904822
	Flush		Black	STOP		
	Flush		White	No engraving	CSW2-BDFI05 WH	12904824
	Flush		Black	No engraving		
	Flush		Black	+	CSW2-BDFI55PN WH	12904825
	Flush		Black	-		
	Flush		Black	↑	CSW2-BDFI55FR WH	12904827
	Flush		Black	↓		

How to Order⁴⁾

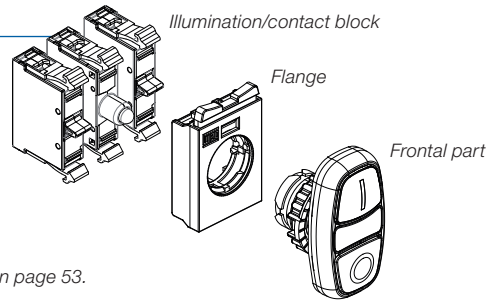
- Frontal part
- + Flange
- + Contact block
- + Illumination block

Notes: 1) They do not allow the use of contact blocks in the center of the flange.

2) It allows the use of illumination contact block in the center of the flange.

3) It allows illumination by means of LED block.

4) Check maximum number of illumination/contact blocks recommended for each frontal part on page 53.



Pilot Lights - Ø22 mm - IP66

Supply: Frontal Part Only

Diffuse¹⁾²⁾

Illustrative image	Color	Reference	Code	Weight (kg)
		White	CSW-SD0 WH	12882465
		Red	CSW-SD1 WH	12882466
		Green	CSW-SD2 WH	12882467
		Yellow	CSW-SD3 WH	12882478
		Blue	CSW-SD4 WH	12882479
		Orange	CSW-SD6 WH ⁴⁾	12882480

How to Order⁵⁾

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

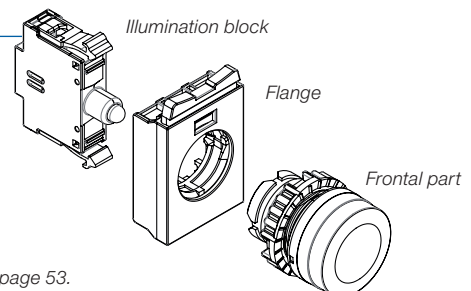
Notes: 1) It allows illumination by means of LED block.

2) It does not allow the use of contact blocks in the center of the flange.

3) In order to increase the protection rating to IP66, use the APBD accessory.

4) For a better performance, use a yellow LED block.






5) Check maximum number of illumination/contact blocks recommended for each frontal part on page 53.








2-Position Selector Switches - Non-Illuminated - Ø22 mm - IP66

Supply: Frontal Part Only

Knob¹⁾

Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
		Maintained	1	45°	●	Black	CSW-CK2F45 WH	0.025
		Momentary	1	45°	●	Black	CSW-CK2R45 WH	
		Maintained	1	90°	●	Black	CSW-CK2F90 WH	
			2	90°	●	Black	CSW-CK2F90W WH	
		Momentary	1	90°	●	Black	CSW-CK2R90 WH	

Lever¹⁾

Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
		Maintained	1	45°	●	Black	CSW-CA2F45 WH	0.025
		Momentary	1	45°	●	Black	CSW-CA2R45 WH	
		Maintained	1	90°	●	Black	CSW-CA2F90 WH	
			2	90°	●	Black	CSW-CA2F90W WH	
		Momentary	1	90°	●	Black	CSW-CA2R90 WH	

With Yale Key Release²⁾³⁾






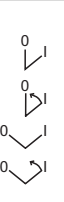
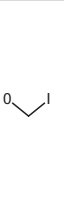
Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
		Maintained	1	45°	●	Black	CSW-CY2F45 WH	0.087
		Momentary	1	45°	●	Black	CSW-CY2R45 WH	
		Maintained	1	90°	●	Black	CSW-CY2F90 WH	
			2	90°	●	Black	CSW-CY2F90W WH	
		Momentary	1	90°	●	Black	CSW-CY2R90 WH	

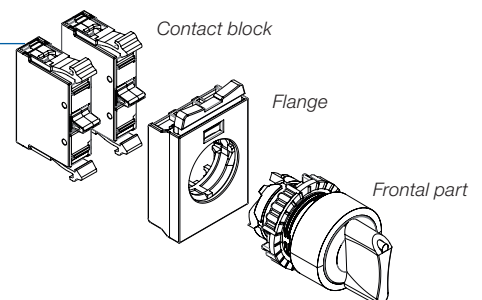
Diagram 1					Diagram 2					Flanges			
	Position of the selector switch	Contactor position on the flange						Contactor position on the flange					
				-	2	3		1	-		-	2	3
		4	2	5	1	3		4	2	5	1	3	5P
	0	□	□	-	□	□		■	■	-	□	□	
	I	■	■	-	■	■		□	□	-	■	■	

Legend

- Contacts in the rest position.
- Contacts operated.

How to Order⁴⁾

- Frontal part
- + Flange
- + Contact block



Notes: 1) Selector switches in other colors, on request only.

2) Keys with different combinations only on request.






3) Key is released in any position. For key release in specific positions, replace CY by: CYD (only on the right), CYE (only on the left) and CYC (only in the center).

4) Check the maximum number of contact blocks recommended for each frontal part on page 53.



3-Position Selector Switches - Non-Illuminated - Ø22 mm - IP66

Supply: Frontal Part Only

Knob¹⁾

Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
	 Maintained	1	45°	●	Black	CSW-CK3F45 WH	12882311	0.025
	 Momentary	1	45°	●	Black	CSW-CK3R45 WH	12882312	
	 Momentary on the right	1	45°	●	Black	CSW-CK3RD45 WH	12882315	
	 Momentary on the left	1	45°	●	Black	CSW-CK3RE45 WH	12882314	

Lever¹⁾

Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
	 Maintained	1	45°	●	Black	CSW-CA3F45 WH	12882340	0.025
	 Momentary	1	45°	●	Black	CSW-CA3R45 WH	12882341	
	 Momentary on the right	1	45°	●	Black	CSW-CA3RD45 WH	12882343	
	 Momentary on the left	1	45°	●	Black	CSW-CA3RE45 WH	12882342	

Key Release²⁾³⁾









Illustrative image	Position	Diagram	Selector angle	Color ¹⁾		Reference	Code	Weight (kg)
	 Maintained	1	45°	●	Black	CSW-CY3F45 WH	12882347	0.087
	 Momentary	1	45°	●	Black	CSW-CY3R45 WH	12882368	
	 Momentary on the right	1	45°	●	Black	CSW-CY3RD45 WH	12882373	
	 Momentary on the left	1	45°	●	Black	CSW-CY3RE45 WH	12882372	

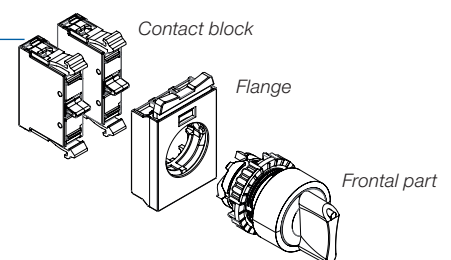
Diagram 1			Flanges				
Position of selector	Contactor position on the flange					3P	
	-	2	3	1	-		
							
							
							

Legend

- Contacts in the rest position.
- Contacts operated.

How to Order⁴⁾

- Frontal part
- + Flange
- + Contact block



Notes: 1) Selector switches in other colors, on request only.

2) Keys with different combinations only on request.



3) Key is released in any position. For key release in specific positions, replace CY by: CYD (only on the right), CYE (only on the left) and CYC (only in the center).

4) Check the maximum number of contact blocks recommended for each frontal part on page 53.






Accessories - Flange Mount

**“Front-back”
system**


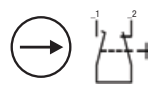
Individual Flange¹⁾

Illustrative image	Description	Standard package	Reference	Code
 0.010 kg	Mounting flange with 3 positions for blocks on the frontal part Front-back assembly system	1 piece	AF3F	12670264
		10 pieces	AF3FX10 ²⁾	12918902
 0.015 kg	Mounting flange with 5 positions for blocks on the frontal part Front-back assembly system	1 piece	AF5F	13268324
		5 pieces	AF5FX5 ²⁾	13275324

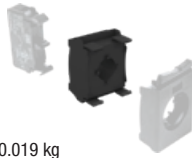
Single Contact Blocks¹⁾

Illustrative image	Contacts	Diagram	Standard package	Compatible flange	Reference	Code
 0.015 kg	1NO		1 piece	AF3F AF5F	BC10F-CSW	12891184
			10 pieces		BC10F-CSWX10 ²⁾	12174912
	1NC		1 piece		BC01F-CSW	12891186
			10 pieces		BC01F-CSWX10 ²⁾	12174913
	1NOa (early make)		1 piece		BCA10F-CSW	13261897
	1NCr (late break)		1 piece		BCR01F-CSW	13262008

Contact Block to Monitor Emergency-Stop Pushbuttons¹⁾³⁾⁴⁾

Illustrative image	Contacts	Diagram	Standard package	Compatible flange	Reference	Code
 0.015 kg	1NC		1 piece	AF3F	BCM01F-CSW	13262011

Push-On/Push-Off Block¹⁾³⁾

Illustrative image	Description	Standard package	Compatible flange	Reference	Code
 0.019 kg	Mechanical push-on/push-off block for contact blocks mounted on buttons: CSW-BF, CSW-BFI, CSW-BS, CSW-BSI, CSW-BGA, CSW-BC, CSW-BCI Note: use with contact blocks only: - BC01F (1NC) - BCA10F (1NOa - advanced)	1 piece	AF3F	BR-3PF-CSW	13270966

Notes: 1) Not compatible with the PBS control stations. Accessories for base or control stations, see page 40 of this catalog.




























2) Unitary weights.

3) It does not allow front-back assembly.

4) The NO auxiliary contact checks the mechanical assembly.


Accessories - Flange Mount

Illumination Blocks with LEDs¹⁾²⁾

Illustrative image	Voltage codes	Color	Diagram	Standard package	Compatible flange	Reference	Code
 <p>0.016 kg</p>	12 V ac/dc	 Colorless		1 piece	AF3F AF5F	CSW-BIDLF-0E25	12640012
		 Red				CSW-BIDLF-1E25	12640013
		 Green				CSW-BIDLF-2E25	12640014
		 Yellow				CSW-BIDLF-3E25	12640015
		 Blue				CSW-BIDLF-4E25	12640016
	24 V ac/dc	 Colorless				CSW-BIDLF-0E26	12640017
		 Red				CSW-BIDLF-1E26	12640038
		 Green				CSW-BIDLF-2E26	12640039
		 Yellow				CSW-BIDLF-3E26	12640040
		 Blue				CSW-BIDLF-4E26	12640041
	48 V ac/dc	 Colorless				CSW-BIDLF-0E27	12640042
		 Red				CSW-BIDLF-1E27	12640043
		 Green				CSW-BIDLF-2E27	12640044
		 Yellow				CSW-BIDLF-3E27	12640046
		 Blue				CSW-BIDLF-4E27	12640047
	110-130 V ac/dc	 Colorless				CSW-BIDLF-0E10	13899138
		 Red				CSW-BIDLF-1E10	13899139
		 Green				CSW-BIDLF-2E10	13899140
		 Yellow				CSW-BIDLF-3E10	13899141
		 Blue				CSW-BIDLF-4E10	13899142
	220-240 V ac	 Colorless				CSW-BIDLF-0D66	12640053
		 Red				CSW-BIDLF-1D66	12640054
		 Green				CSW-BIDLF-2D66	12640055
		 Yellow				CSW-BIDLF-3D66	12640056
 Blue		CSW-BIDLF-4D66	12640057				

PBW Control Stations - IP66 CE/UL




Empty Control Stations - Hole Ø22 mm¹⁾

Illustrative image	Number of holes	Color		Package	Protection rating	Reference	Code
		Cover	Base				
 0.114 kg	1	Yellow	Gray	1 piece	IP66	PBW-1Y	12204334
 0.114 kg						PBW-1	12204335
 0.152 kg	2					PBW-2	12204336
 0.185 kg	3	Gray				PBW-3	12204337
 0.215 kg	4					PBW-4	12204388
 0.276 kg	6					PBW-6	12204389

Note: 1) It does not allow the mounting of mushroom buttons side by side with other frontal parts; for this assembly do not use the hole next to the mushroom button using the ATR plug accessory. It is not necessary to use the mounting flange for the proper mounting of the frontal parts in the PBW control stations.

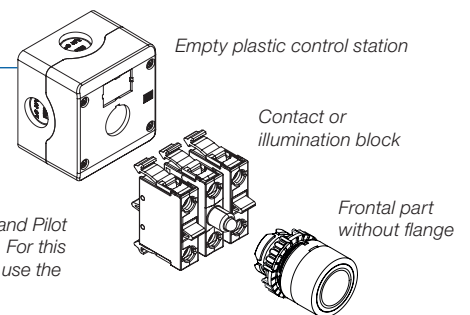
Accessories - Base/Control Stations Mounting

Contact Blocks²⁾

Illustrative image	Description	Contacts	Diagram	Standard package	Reference	Code
 0.015 kg	Base or DIN rail 35mm mounted single contact blocks	1NC		1 piece	BC01B-CSW	12174857
				10 pieces	BC01B-CSWX10 ³⁾	13163056
		1NO		1 piece	BC10B-CSW	12174856
				10 pieces	BC10B-CSWX10 ³⁾	13163057

How to Order

- Frontal Part without flange
- + Contact or illumination blocks
- + Empty plastic control station






























Notes: 1) Compatible with all single pushbuttons, knob selector switches and pilot lights of the Pushbuttons and Pilot Lights line. It does not allow mounting mushroom pushbuttons side by side with other frontal parts. For this mounting, close hole next to the mushroom button using the ATR accessory. It is not necessary to use the mounting flange for the proper mounting of the frontal parts in the PBW control stations;

- 2) Specific blocks for base mounting or mounting in PBW control stations or 35 mm DIN rail;
3) Unit weights.

Accessories - Base/Control Stations Mounting

Illumination Blocks with Integrated LED¹⁾


Illustrative image	Voltage codes	Color	Diagram	Standard package	Reference	Code
	12 V ac/dc	 Colorless		1 piece	CSW-BIDLB-0E25	12195732
		 Red			CSW-BIDLB-1E25	12195737
		 Green			CSW-BIDLB-2E25	12195839
		 Yellow			CSW-BIDLB-3E25	12195840
		 Blue			CSW-BIDLB-4E25	12195842
	24 V ac/dc	 Colorless			CSW-BIDLB-0E26	12195847
		 Red			CSW-BIDLB-1E26	12195918
		 Green			CSW-BIDLB-2E26	12195919
		 Yellow			CSW-BIDLB-3E26	12195920
		 Blue			CSW-BIDLB-4E26	12195921
	48 V ac/dc	 Colorless			CSW-BIDLB-0E27	12195922
		 Red			CSW-BIDLB-1E27	12195923
		 Green			CSW-BIDLB-2E27	12195924
		 Yellow			CSW-BIDLB-3E27	12195926
		 Blue			CSW-BIDLB-4E27	12195948
	110-130 V ac/dc	 Colorless			CSW-BIDLB-0E10	13899143
		 Red			CSW-BIDLB-1E10	13899144
		 Green			CSW-BIDLB-2E10	13899146
		 Yellow			CSW-BIDLB-3E10	13899147
		 Blue			CSW-BIDLB-4E10	13899190
220-240 V ac	 Colorless	CSW-BIDLB-0D66	12196008			
	 Red	CSW-BIDLB-1D66	12196009			
	 Green	CSW-BIDLB-2D66	12196010			
	 Yellow	CSW-BIDLB-3D66	12196011			
	 Blue	CSW-BIDLB-4D66	12196012			

0.016 kg

Note: 1) Specific blocks for base mounting or mounting in PBW control stations or 35 mm DIN rail.

Common Accessories (Flange/Base Mounting)

Emergency Pushbutton Protection³⁾

Illustrative image	Description	Standard package	Reference	Code
	GGuard to avoid inadvertent touch on the emergency-stop pushbutton model CSW-BES4). Mounting in flanges and PBW control stations. WITHOUT engraving	GBES	1	13263711
	Guard to avoid inadvertent touch on the emergency-stop pushbutton model CSW-BES4). Mounting in flanges and PBW control stations. With engraving: EMERGENCY-STOP	GBES-01	1	13888126
	Guard to avoid inadvertent touch on the emergency-stop pushbutton model CSW-BES4). Mounting in flanges and PBW control stations. With engraving: EMERGENCY-STOP	GBES-02	1	13888127
	Guard to avoid inadvertent touch on the emergency-stop pushbutton model CSW-BES4). Mounting in flanges and PBW control stations. With engraving: EMERGENCIA-PARO	GBES-03	1	13888199

0.025 kg

Technical Data

Pushbuttons, Selector Switches and Pilot Lights

Applicable standards	IEC 60947-5-1, VDE 0660, UL 508, CENELEC EN 50007, ISO 13850 (EN 418), IEC 60947-5-5
Certifications	CE, cULus, BV, IRAM, PCT, RCC, ICONTEC
Protection rating	IP66 and IP52 (CSW-BD) according to IEC 60529 NEMA1, 2, 3, 3R, 3S, 4, 4X, 5, 12, 12K and 13 according to UL 508
Materials of the frontal parts	Polyamide (PA66) or Polycarbonate (PC)
Mechanical life	
Buttons	3 x 10 ⁶ operations
CSW2-BD and CSW2-BT pushbuttons	2 x 10 ⁶ operations
CSW-BEG/EY/CT/CY/CW pushbuttons	3 x 10 ⁵ operations
Selector switches	1 x 10 ⁶ operations
CSW-BESG/P/Y/W emergency-stop pushbuttons	1 x 10 ⁵ operations
CSW-BESG_I (lighting emergency-stop pushbuttons)	5 x 10 ⁴ operations
Use in environments	Outdoors (UV rays) or indoors
Working temperature range	-25 °C ... 70 °C

Contact Blocks

Applicable standards	IEC 60947-5-1, VDE 0660, UL 508, CENELEC EN 50007, ISO 13850 (EN 418), IEC 60947-5-5			
Certifications	CE, cULus, BV, IRAM, PCT, RCC, ICONTEC			
Rated insulation voltage U _i	690 V			
Rated impulse-withstand voltage U _{imp}	4 kV			
Protection rating (IEC 60529)	IP20			
Conventional thermal current I _{th}	10 A			
Electrical performance according to IEC 60947-5-1				
Utilization category AC-15	BC...-CSW		BCM01-CSW	
	U _e (V ac)	I _e (A)	U _e (V ac)	I _e (A)
	24	10	24	6
	48	10	48	6
	60	10	60	6
	110	6	110	6
	220	3	220	3
	380	2	380	2
Utilization category DC-13	BC...-CSW		BCM01-CSW	
	U _e (V dc)	I _e (A)	U _e (V dc)	I _e (A)
	24	2.5	24	2.5
	48	1.4	48	1.4
	60	1	60	1
	110	0.55	110	0.55
	220	0.27	220	0.27
	300	0.2	300	0.2
600	0.1	600	0.1	
Performance according to UL and CSA	AC / Heavy Duty (A600) and DC / Standard Duty (Q600)		-	
Resistance of the contacts (IEC 60255)	≤ 25m Ω			
Protection against short circuit (IEC 60269-1 / IEC 60269-3)	BC...-CSW: Fuse of 16 A / 690 V gL/gG (1 kA) Mini-circuit breaker of 16 A (MDW-B16)		Fuse of 6 A / 500 V gL/gG (0.5 kA) Mini-circuit breaker of 6 A (MDW-B6)	
	BC...F-CSW (Front-back) and BC...B-CSW (Control Stations): Fuse of 10 A / 690 V gL/gG (1 kA) Mini-circuit breaker of 10 A (MDW-B10)			
Protection against electric shock (IEC 61140)	Class II			
Section of the conductors (wire/cable with or without terminal)	Minimum (1 x 0.5 mm ²) and maximum (2 x 2.5 mm ²)			
Tightening torque	0.8 N.m			
Working temperature range	-25 °C...+70 °C			
Resistance to mechanical shock	Without damages or disassembly 100 g (1/2 sinusoidal 11ms, according to MIL 202 B method 202 A)			
Resistance to vibration (IEC 60068-2-6)	16 g for a frequency range from 40 to 500 Hz. Maximum displacement 0.75 mm (peak to peak)			
Mechanical life of the BC10F / BC01F / BCA10F / BCR01F contact blocks	1 x 10 ⁶ operations			

Technical Data

Illumination Blocks with Integrated LED BIDL

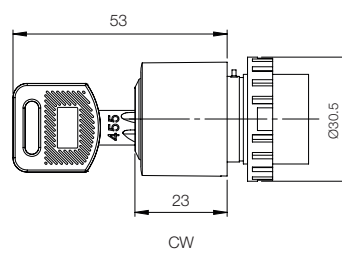
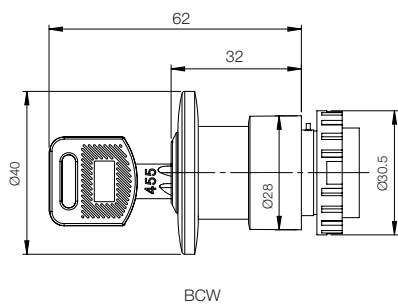
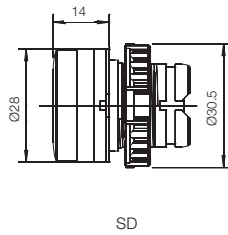
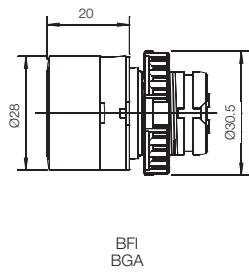
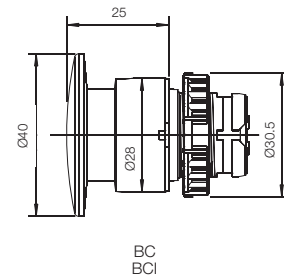
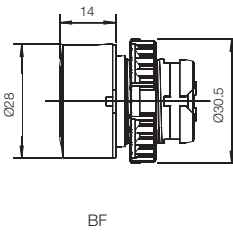
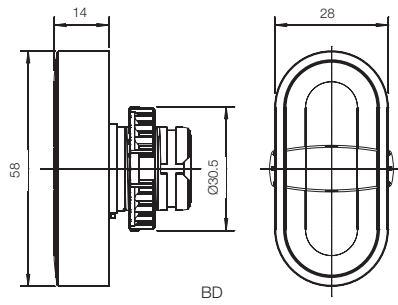
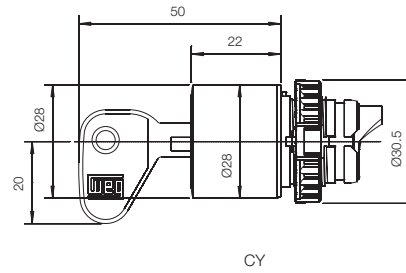
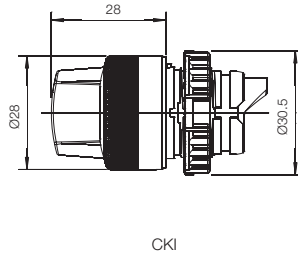
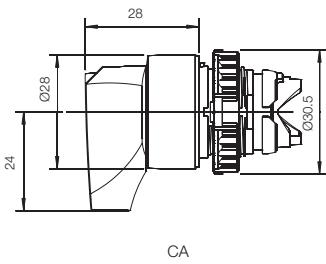
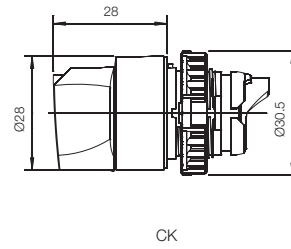
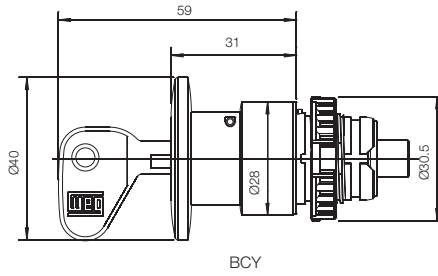
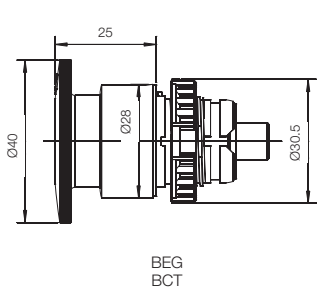
Applicable standards	IEC 60947-5-1, UL 508
Voltage range for operation	0.85...1.10 x U _e
Protection rating (IEC 60529)	IP20
Consumption (V ac/ V dc)	10 mA
Rated impulse-withstand voltage U _i (IEC 60947-1)	2.5 kV
Operating temperature range	- 25 °C...+70 °C
Average useful life	100,000 hours
Brightness	Red 70 mcd
	Yellow 115 mcd
	White 275 mcd
	Blue 64 mcd
	Green 150 mcd
Section of the conductors (wire/cable with or without terminal)	Minimum (1 x 0.5 mm ²) and maximum (2 x 2.5 mm ²)
Tightening torque	0.8 N.m

Empty Plastic Boxes - PBW / PBWL

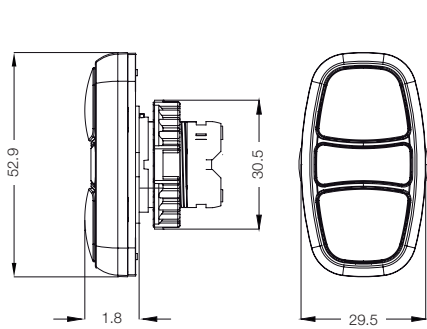
Applicable standards	IEC 60947-5-1, IEC 50102, IEC 60529, UL 508, UL 50
Certifications	UL / CE
Protection rating (IEC 60529)	IP66 (NEMA 4X)
Working temperature range	-25 °C...+70 °C
Material	ABS and Polycarbonate (cover and base)
Color of the cover	Grey (RAL 7035) or yellow (RAL 1003)
Color of the base	Black (RAL 9005)
Cable gland entries	ØM20 / PG13.5 / 1/2" and ØM16 / 3/8"
Use in environments	Outdoors (UV rays) or indoors

Note: PBWL control stations are CE certified only.

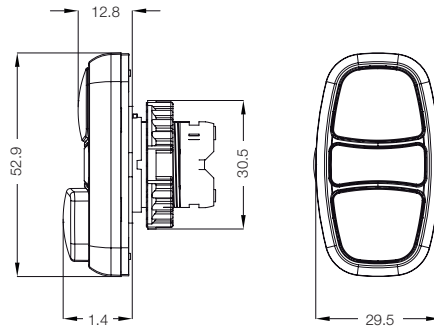
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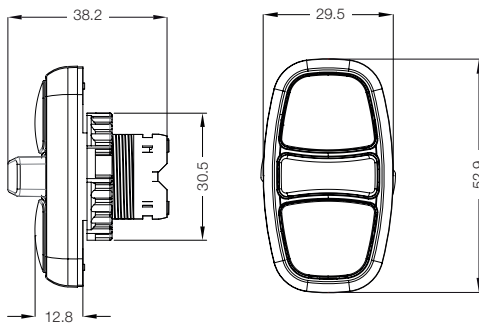
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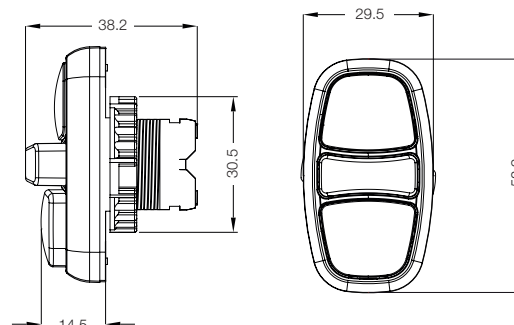
CSW2-BDF



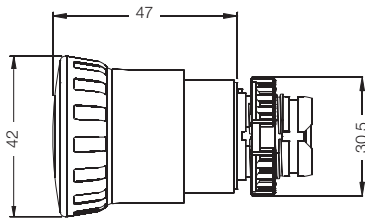
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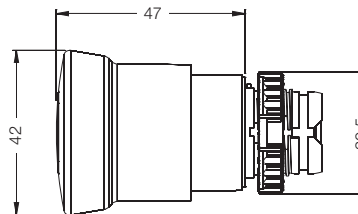
CSW2-BTF



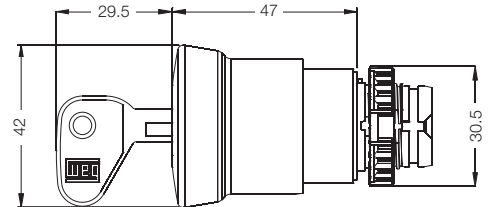
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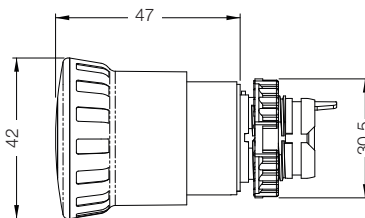
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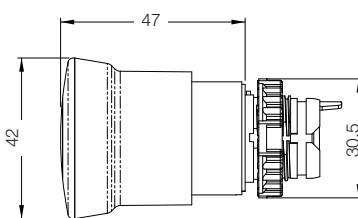
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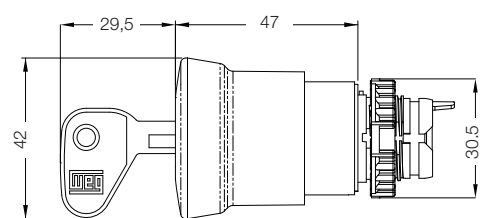
BESY



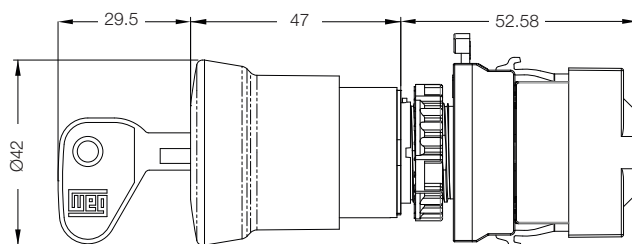
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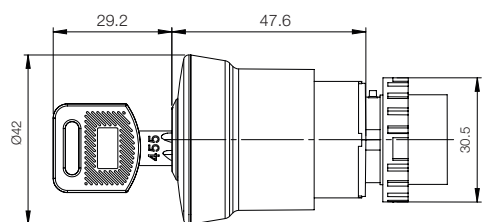
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BESYM

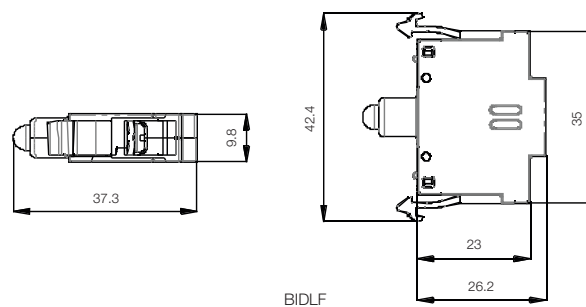
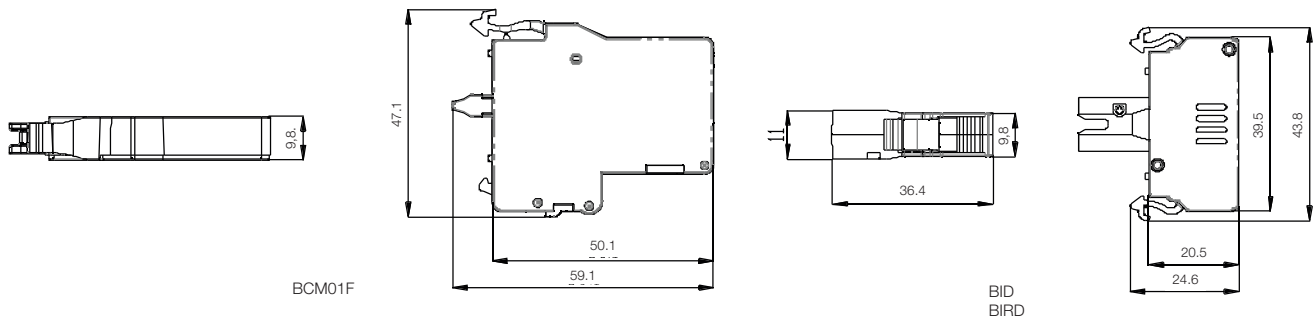
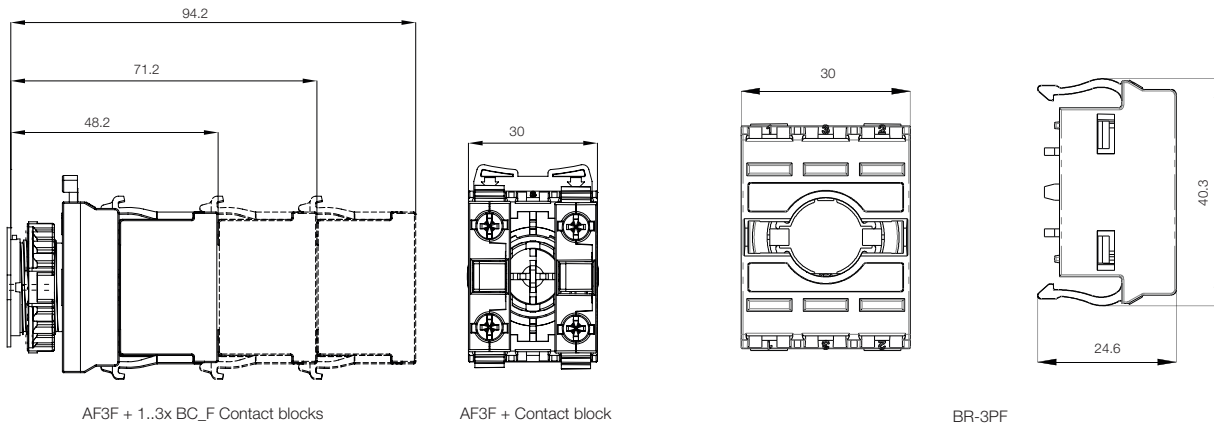
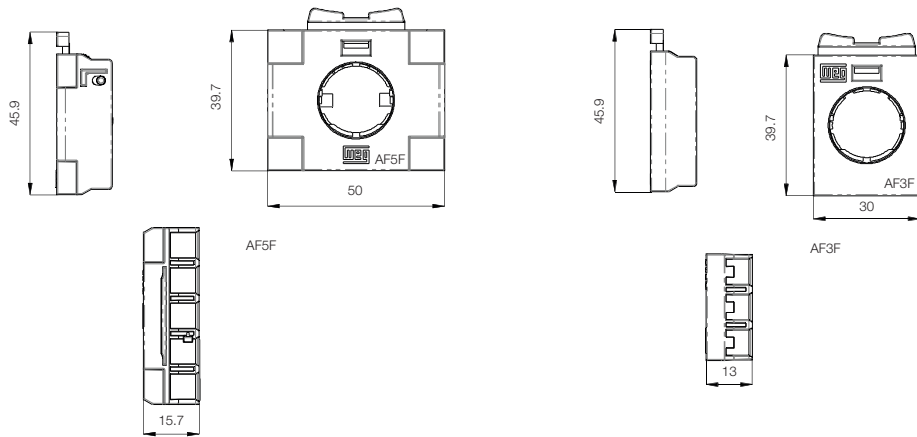


BES_M + BC10F/BC01F Contact blocks + CBCSW Tie

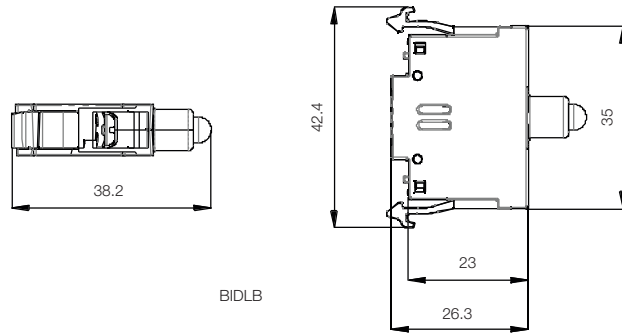


BESW / BESWM

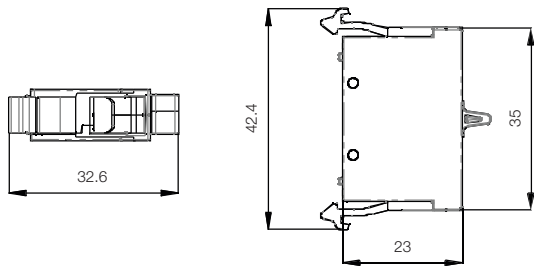
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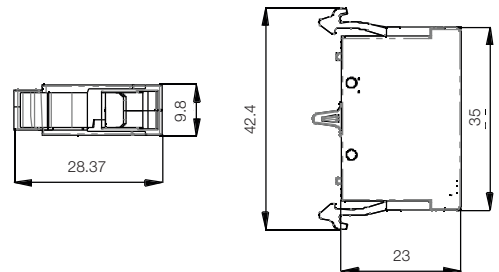
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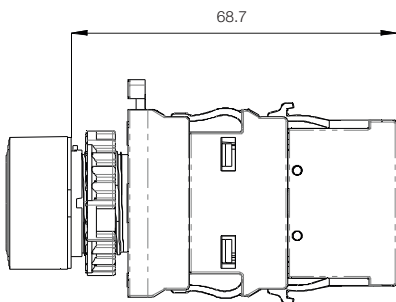
BIDLB



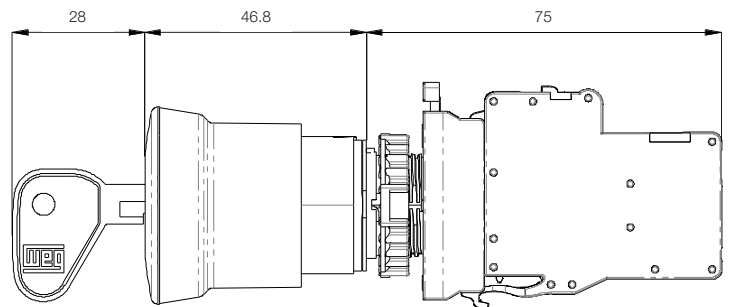
BC10B
BC01B



BC10F
BC01F

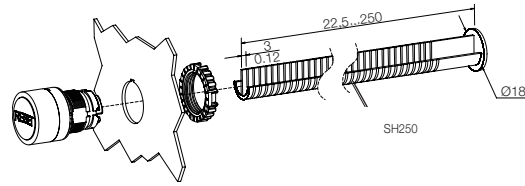


AF3F + BR - 3PF + BIDLF + BCA10F

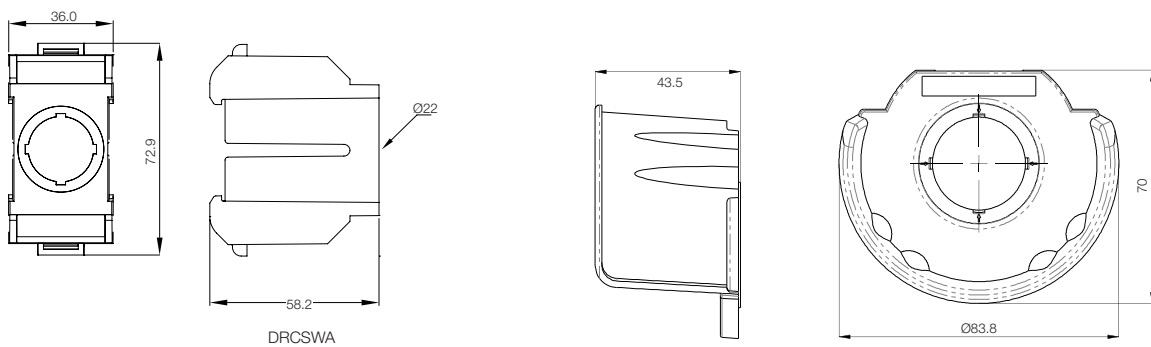
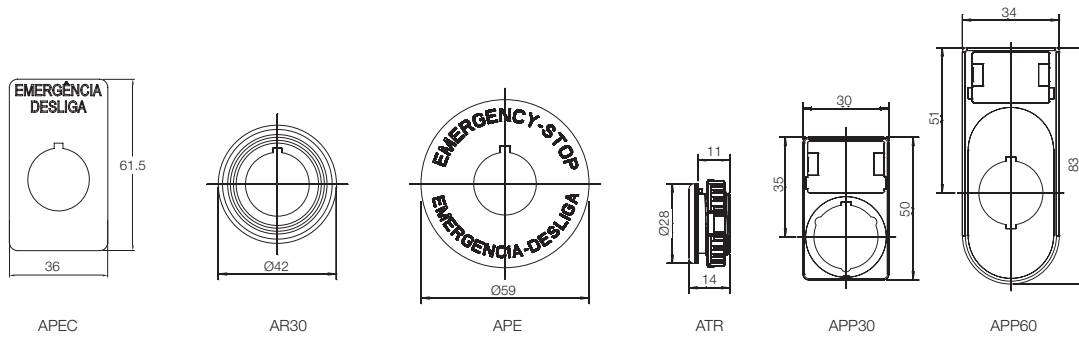
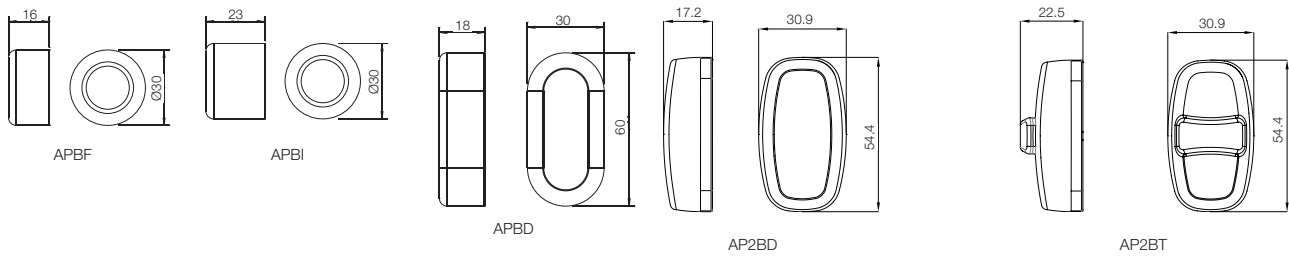


BESY + BCM01 - CSW

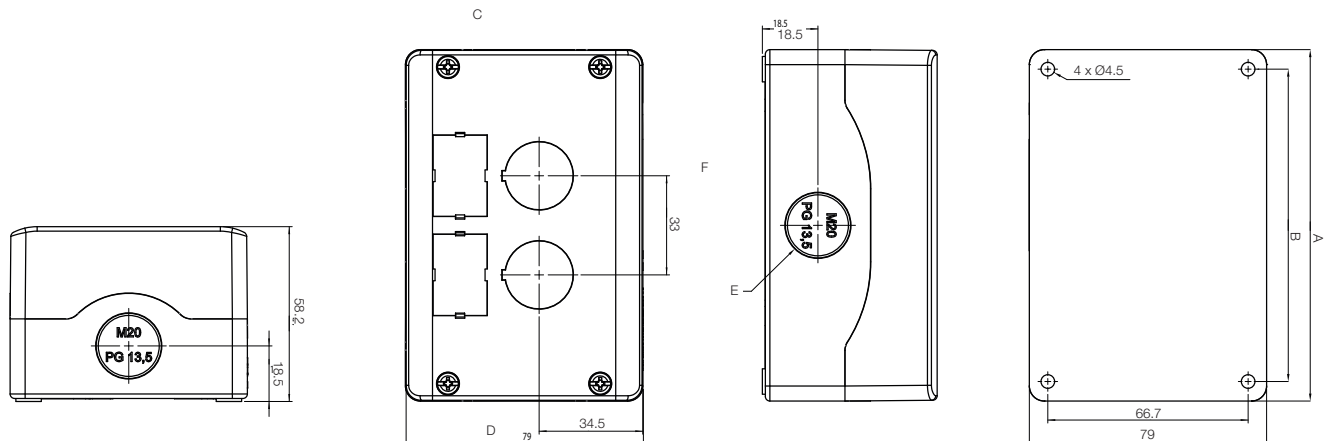
Dimensions (mm)



CSW-BHF437

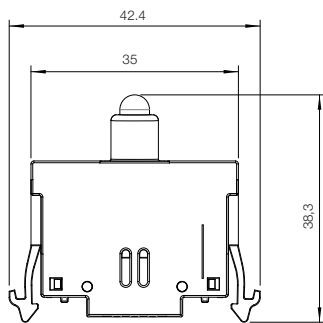


Dimensions (mm)

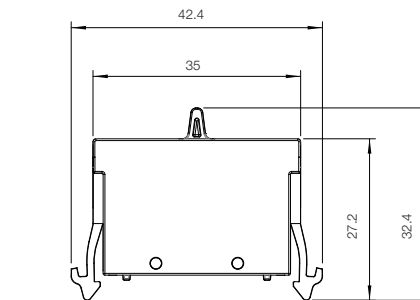


PBW / PBWL Empty Control Station

Number of holes	A	B	Cable gland entry			
			C (lower)	D (upper)	E (side)	F (base)
1	74	66.7	1x ØM20/PG13.5	1x ØM20/PG13.5	1x ØM20/PG13.5	2x ØM16
2	117	104	1x ØM20/PG13.5	1x ØM20/PG13.5	1x ØM20/PG13.5	2x ØM16
3	150	137	1x ØM20/PG13.5	1x ØM20/PG13.5	2x ØM20/PG13.5	2x ØM16
4	183	170	1x ØM20/PG13.5	1x ØM20/PG13.5	2x ØM20/PG13.5	2x ØM16
6	249	236	1x ØM20/PG13.5	1x ØM20/PG13.5	2x ØM20/PG13.5	2x ØM16

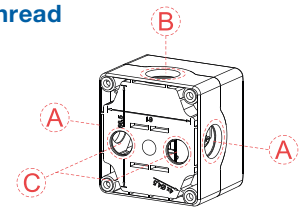


BIDLB - CSW



BC**B - CSW

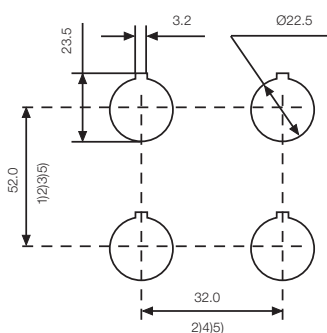
Entry for Thread



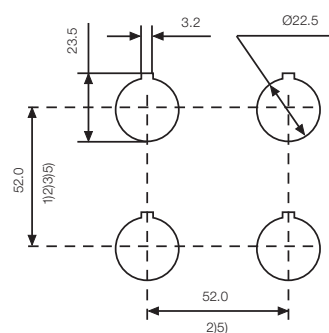
	A	B	C
PBW-1 PBW-1Y PBWL-1 PBWL-1Y	2 x M20 PG13.5 1/2"	1 x M20 PG13.5 1/2"	2 x M16 "PG9"
PBW-2 PBWL-2			
PBW-3 PBWL-3			
PBW-4 PBWL-4			
PBW-6 PBWL-6			

Installation Distances (mm)

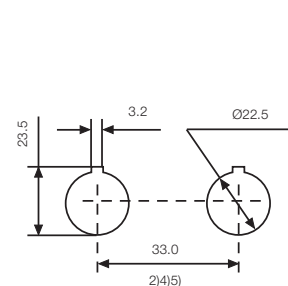
AF3F 3-Position Flange



AF5F 5-Position Flange



PBW/PBWL Control Stations



- Notes: 1) 60.0 - BD
2) 100.0 - BESG/BESP/BESY/GBES
3) 85.0
4) 35.0 - APPT60
5) 60.0 - APE