IDEC

Think Automation and beyond...

IDEC ø22mm Flush Mount CW Series

Switches & Pilot Devices

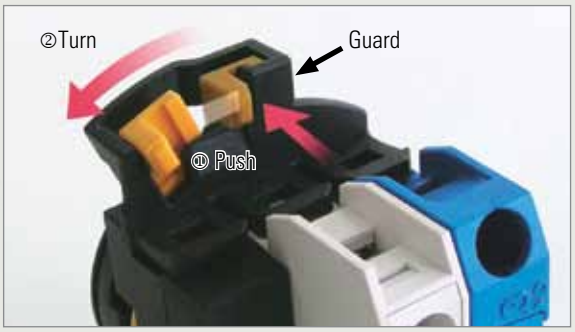
Safety, Style and Flexibility

Safety

Third-generation Safety Construction

Two-action removal of contact blocks

IDEC's original two-action push-turn locking lever provides a higher level of safety by preventing unexpected release of the locking lever. In addition, the position of the locking lever can be used to verify if the contact block was installed securely by checking from the back of the panel.



Locking lever integrated with guard

Prevents locking lever from unexpected release or damage by trapped wires.

IP20 Finger-safe Terminals

Finger-safe, IP20 terminals prevent electrical shock.

Bezel
Black or metallic

Illuminated Pushbuttons - Page 6

- Round flush and extended
- Illumination colors: amber, blue, green, white, red, yellow

Non-illuminated Pushbuttons - Page 8

- Round flush and extended
- Button colors: black, blue, green, red, yellow, white

Pilot Lights - Page 9

- Round flush and extended
- Illumination colors: amber, blue, green, white, red, yellow

The IDEC commitment to assuring safety in all operating environments has resulted in stylish, compact and space-saving switches and pilot devices. The innovative two-step locking lever integrated with a guard provides a higher level of safety, and the low projection from the panel surface reduces the possibility of unexpected activation or operator damage. The CW series adds a sleek and stylish image to the panel with black or metallic bezels. The shortest depth behind the panel in its class contributes to reducing machine size.

Design & Style

Sleek and stylish switches with a 2.5mm-thick bezel

The CW series give a sleek, stylish image to your machine or control panel. Because of the slim profile, the surface is safer as there is less chance of unexpected operation or accident by hitting the switch. The design also means that the switch is cleaner as it has less dust build-up.

Single Contact Block

Shortest in its class

Short depth behind the panel
Space-saving design

Short depth behind the panel allows for smaller machines and panels. Up to 3 contact blocks (non-illuminated models) or 2 contact blocks (illuminated models) can be installed. Use with IDEC FB series or other control boxes.

- 300V AC, 10A contact rating
- No transformer needed—the same depth behind the panel—for any illumination voltage.
- Up to 6 total contacts per switch are possible

Actual size

Dual Contact Block

Depth behind the panel comparison

The depth behind the panel of the CW series is shorter than conventional switches, reducing the amount of space needed in the control panel.

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Selector Switches - Page 10

- Knob Operator 2- and 3-position

Selector Switches - Page 10

- Lever Operator 2- and 3-position
- Lever operator with an easy grip

Key Selector Switches - Page 13

- **7** different wave-keys available
- Hard to duplicate, wave-key ensures a high level of safety

ø22mm Flush Mount CW Switches & Pilot Devices

Flush bezel projects only 2.5mm from front of panel and as little as 39.9mm behind the panel!

- ø22.3mm mounting hole compliant with IEC 60947-5-1
- 3.5mm operator travel for pushbuttons ensures comfortable and reliable operation
- Up to 6 contacts per switch are possible with use of dual contact blocks
- Black and metallic bezels available
- Illuminated pushbuttons, pushbuttons, pilot lights, selector switches and key selector switches are available
- Direct opening NC contact
- Seven different keys can be chosen for key selector switches
- 10A contact rating; up to three contact blocks for non-illuminated and two contact blocks for illuminated models can be connected
- Contact blocks can be removed by using the locking lever
- IP20 finger-safe screw terminals
- UL Type 4X rating

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	c UL us LISTED	UL/c-UL File No. E68961
EN60947-5-1	TÜV	TÜV SÜD
	CE	EC Low Voltage Directive

Contact Ratings

Rated Insulation Voltage (Ui)				300V		
Rated Thermal Current (Ith)				10A		
Rated Operating Voltage (Ue)				24V	120V	240V
Rated Operating Current (Ie)	Electrical Life 50,000 operations	AC 50/60 Hz	Resistive Load (AC-12)	10A	10A	6A
			Inductive Load (AC-15)	10A	6A	3A
		DC	Resistive Load (DC-12)	8A	2.2A	1.1A
			Inductive Load (DC-13)	4A	1.1A	0.55A
	Electrical Life 100,000 operations	AC 50/60 Hz	Resistive Load (AC-12)	5A	5A	3A
			Inductive Load (AC-15)	5A	3A	1.5A
		DC	Resistive Load (DC-12)	4A	1.1A	0.55A
			Inductive Load (DC-13)	2A	0.55A	0.27A
Contact Material				Silver		

1. Minimum applicable load (reference value): 3V AC/DC, 5 mA (Applicable range is subject to the operating conditions and load.)
2. The operational current represents the classification by making and breaking currents (IEC 60947-5-1).
3. UL, c-UL rating: A300

Weights

Illuminated Pushbutton	46g (CW1L-M1E02QH, 2 contacts) 62g (CW1L-M1E22QH, 4 contacts)
Pushbutton	45g (CW1B-M1E03, 3 contacts) 52g (CW1B-M1E22, 4 contacts)
Pilot Light	27g (CW1P-1EQH)
Selector Switch	48g (CW1S-2E03, 3 contacts) 55g (CW1S-2E22, 4 contacts)
Key Selector Switch	61g (CW1K-2AE03, 3 contacts) 68g (CW1K-2AE22, 4 contacts)

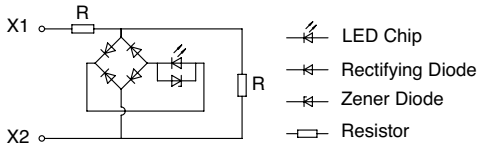
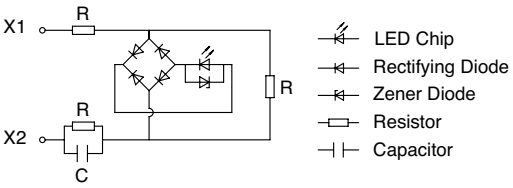
Specifications

Operating Temperature	Non-illuminated: –25 to +60°C (no freezing) LED illuminated: –25 to +55°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)
Storage Temperature	–40 to +80°C
Contact Resistance	50 mΩ maximum (initial value)
Insulation Resistance	100 MΩ minimum (500V DC megger)
Overvoltage Category	II (IEC 60664-1)
Impulse Withstand Voltage	2.5 kV (IEC60664-1/60947-5-1)
Pollution Degree	3 (IEC60947-5-1)
Vibration Resistance	Operating extremes: 5 to 55Hz, amplitude 0.5 mm
Shock Resistance	Operating extremes: 100 m/s^2 Damage limits: 1000 m/s^2
Mechanical Life (minimum operations)	Pushbutton, illuminated pushbutton: 2,000,000 Selector switch: 250,000 Key selector switch: 250,000
Electrical Life (minimum operations)	50,000 (see Contact Ratings) 100,000 (see Contact Ratings) (switching frequency 1800 operations/h)
Degree of Protection (IEC60529)	Panel front: IP65, IP66, IP67 (see chart on page 5) Terminals: IP20 Type 4X
Short-circuit Protection	250V/10A fuse, (Type aM IEC60269-1, IEC602069-2)
Electrical Shock Protection	Class II (IEC61140)
Terminal Style	Screw terminal (M3.5 slotted Phillips screw)
Bezel Material	Polyamide
Applicable Wire Size	Up to 2 wires of 2 mm^2 (solid wire ø1.6) maximum (AWG14 to 16) (Ring terminal cannot be used)
Recommended Tightening Torque	Terminal: 1.0 to 1.3 N·m Locking ring: 1.2 N·m

Direct Opening of Key Selector Switch

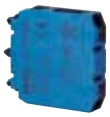
	2-position (3NC)	3-position (2NC)
Operator Angle for Direct Opening Action	90°	45°
Minimum Operator Torque for Direct Opening Action	0.2 N·m	0.3 N·m
Maximum Operator Angle	90°	45°

LED Module

Rated Insulation Voltage (Ui)	250V				
Rated Operating Voltage (Ue)	6V AC/DC	12V AC/DC	24V AC/DC	100/120V AC	230/240V AC
Operating Voltage Range	6V AC/DC±10%	12V AC/DC±10%	24V AC/DC±10%	100/120V AC±10%	230/240V AC +/-10%
Illumination Color Code ②	A (amber), G (green), PW (white), R (red), S (blue)				
LED Module Part Number	CW-EAQ2②	CW-EAQ3②	CW-EAQ4②	CW-EAQH②	CW-EAQM4②
Current Draw	15 mA	15 mA	16.5 mA	18 mA	18 mA
Life (reference value)	Approx. 30,000 hours				
Internal Circuit					

1. Specify an illumination color code in place of ② in the part number.
2. Use the white (PW) LED module for yellow illumination.

Contact Blocks

Contact Block	Single Contact Block		Double Contact Block		
Contact	1NO	1NC	2NO	2NC	1NO-1NC
Part No.	YW-E10R	YW-E01	YW-EW2R0	YW-EW02	YW-EW1R1
Shape					
Housing Color	Blue/Black	Reddish Purple	Blue/Black	Reddish Purple	Reddish Purple/Blue
Push Rod Color	Black	Red	Black	Red	Gray
Terminal No.	3-4	1-2	1st tier: 13-14 2nd tier: 23-24	1st tier: 11-12 2nd tier: 21-22	1st tier: (NO) 13-14 2nd tier: (NC) 21-22
Weight (approx.)	11g		19g		

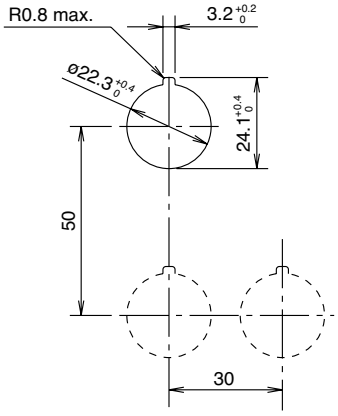
Degree of Protection

Rating	IP65	IP66	IP67	UL Type 4X
Illuminated Pushbutton	Yes	Yes *	Yes *	Yes *
Pilot Light	Yes	Yes	No	Yes
Pushbutton	Yes	Yes *	Yes *	Yes *
Selector Switch	Yes	Yes	Yes	Yes
Key Selector Switch	Yes	Yes	No	Yes

*When used with rubber boot (CW9Z-D11, -D12)

Mounting Hole Layout

IEC 60947-5-1 compliant



Note: Determine mounting centers to ensure proper spacing.

Illuminated Pushbuttons (Assembled)

Shape	Operating Voltage	Contact Configuration	Black Bezel	Metallic Bezel	Illumination Color Code ②
Round Flush CW□L-□1	6V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③1E10Q2② CW1L-③1E01Q2② CW1L-③1E11Q2② CW1L-③1E20Q2② CW1L-③1E02Q2② CW1L-③1E22Q2②	CW4L-③1E10Q2② CW4L-③1E01Q2② CW4L-③1E11Q2② CW4L-③1E20Q2② CW4L-③1E02Q2② CW4L-③1E22Q2②	A: amber G: green PW: white R: red S: blue Y: yellow
 (black bezel)	12V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③1E10Q3② CW1L-③1E01Q3② CW1L-③1E11Q3② CW1L-③1E20Q3② CW1L-③1E02Q3② CW1L-③1E22Q3②	CW4L-③1E10Q3② CW4L-③1E01Q3② CW4L-③1E11Q3② CW4L-③1E20Q3② CW4L-③1E02Q3② CW4L-③1E22Q3②	
	24V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③1E10Q4② CW1L-③1E01Q4② CW1L-③1E11Q4② CW1L-③1E20Q4② CW1L-③1E02Q4② CW1L-③1E22Q4②	CW4L-③1E10Q4② CW4L-③1E01Q4② CW4L-③1E11Q4② CW4L-③1E20Q4② CW4L-③1E02Q4② CW4L-③1E22Q4②	
 (metallic bezel)	100/120V AC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③1E10QH② CW1L-③1E01QH② CW1L-③1E11QH② CW1L-③1E20QH② CW1L-③1E02QH② CW1L-③1E22QH②	CW4L-③1E10QH② CW4L-③1E01QH② CW4L-③1E11QH② CW4L-③1E20QH② CW4L-③1E02QH② CW4L-③1E22QH②	
	230/240V AC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③1E10QM4② CW1L-③1E01QM4② CW1L-③1E11QM4② CW1L-③1E20QM4② CW1L-③1E02QM4② CW1L-③1E22QM4②	CW4L-③1E10QM4② CW4L-③1E01QM4② CW4L-③1E11QM4② CW4L-③1E20QM4② CW4L-③1E02QM4② CW4L-③1E22QM4②	
Round Extended CW□L-□2	6V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③2E10Q2② CW1L-③2E01Q2② CW1L-③2E11Q2② CW1L-③2E20Q2② CW1L-③2E02Q2② CW1L-③2E22Q2②	CW4L-③2E10Q2② CW4L-③2E01Q2② CW4L-③2E11Q2② CW4L-③2E20Q2② CW4L-③2E02Q2② CW4L-③2E22Q2②	
 (black bezel)	12V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③2E10Q3② CW1L-③2E01Q3② CW1L-③2E11Q3② CW1L-③2E20Q3② CW1L-③2E02Q3② CW1L-③2E22Q3②	CW4L-③2E10Q3② CW4L-③2E01Q3② CW4L-③2E11Q3② CW4L-③2E20Q3② CW4L-③2E02Q3② CW4L-③2E22Q3②	
	24V AC/DC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③2E10Q4② CW1L-③2E01Q4② CW1L-③2E11Q4② CW1L-③2E20Q4② CW1L-③2E02Q4② CW1L-③2E22Q4②	CW4L-③2E10Q4② CW4L-③2E01Q4② CW4L-③2E11Q4② CW4L-③2E20Q4② CW4L-③2E02Q4② CW4L-③2E22Q4②	
 (metallic bezel)	100/120V AC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③2E10QH② CW1L-③2E01QH② CW1L-③2E11QH② CW1L-③2E20QH② CW1L-③2E02QH② CW1L-③2E22QH②	CW4L-③2E10QH② CW4L-③2E01QH② CW4L-③2E11QH② CW4L-③2E20QH② CW4L-③2E02QH② CW4L-③2E22QH②	
	230/240V AC	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-③2E10QM4② CW1L-③2E01QM4② CW1L-③2E11QM4② CW1L-③2E20QM4② CW1L-③2E02QM4② CW1L-③2E22QM4②	CW4L-③2E10QM4② CW4L-③2E01QM4② CW4L-③2E11QM4② CW4L-③2E20QM4② CW4L-③2E02QM4② CW4L-③2E22QM4②	

1. Specify an illumination color code in place of ② in the Part Number
2. Specify function code in place of ③ in the Part Number. M: momentary, A: maintained
3. See page page 16 for dimensions.
4. See next page for replacement LED modules.
5. A dummy block is installed when one contact block is used.
6. Additional contact configurations available, contact IDEC for more details.

Illuminated Pushbuttons (Sub-assembled)

Contact Block	LED Module	Mounting Adaptor	Operator	Lens	Completed Unit

Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
	Finger-safe Screw terminal	Single	1NO	YW-E10R
			1NC	YW-E01
		Double	2NO	YW-EW2R0
			2NC	YW-EW02
			1N0-1NC	YW-EW1R1
	Dummy block			CW-DB

LED Module

Style	Part Number
	CW-EAQ ②①

1. In place of ①, specify the Lens/LED Color Code from table.
2. In place of ②, specify the Voltage Code from table.

Contact Block Mounting Adaptor

Style	Part Number
	CW-CN

Operator

Style			Black Bezel	Metallic Bezel
	Momentary	Round flush	CW1B-M10	CW4B-M10
		Round extended	CW1B-M20	CW4B-M20
	Maintained	Round flush	CW1B-A10	CW4B-A10
		Round extended	CW1B-A20	CW4B-A20

Lens

Style		Part number
	Round flush	CW9Z-L11①
	Round extended	CW9Z-L12①

1. In place of ①, specify the Lens/LED Color Code from table.

① Lens/LED Color Code

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White*	PW or C
Yellow	Y

*Use PW for LED module, use C for lens.

② Voltage Code

Voltage	Code
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4
100/120V AC	H
230/240V AC	M4

Non-illuminated Pushbuttons (Assembled)

Shape	Contact Configuration	Black Bezel	Metallic Bezel	Button Color Code ①
Round Flush CW□B-□1 (black bezel)	1NO 1NC 1NO-1NC 2NO 2NC 2NO-1NC* 1NO-2NC* 3NO* 3NC* 2NO-2NC	CW1B-③1E10① CW1B-③1E01① CW1B-③1E11① CW1B-③1E20① CW1B-③1E02① CW1B-M1E21① CW1B-M1E12① CW1B-M1E30① CW1B-M1E03① CW1B-③1E22①	CW4B-③1E10① CW4B-③1E01① CW4B-③1E11① CW4B-③1E20① CW4B-③1E02① CW4B-M1E21① CW4B-M1E12① CW4B-M1E30① CW4B-M1E03① CW4B-③1E22①	B: black G: green R: red S: blue W: white Y: yellow
Round Extended CW□B-□2 (metallic bezel)	1NO 1NC 1NO-1NC 2NO 2NC 2NO-1NC* 1NO-2NC* 3NO* 3NC* 2NO-2NC	CW1B-③2E10① CW1B-③2E01① CW1B-③2E11① CW1B-③2E20① CW1B-③2E02① CW1B-M2E21① CW1B-M2E12① CW1B-M2E30① CW1B-M2E03① CW1B-③2E22①	CW4B-③2E10① CW4B-③2E01① CW4B-③2E11① CW4B-③2E20① CW4B-③2E02① CW4B-M2E21① CW4B-M2E12① CW4B-M2E30① CW4B-M2E03① CW4B-③2E22①	

1. Specify a button color code in place of ① in the part number.
2. Specify function code in place of ③ in the Part Number. M: momentary, A: maintained
3. See page page 17 for dimensions.
4. Two or one dummy block is installed when one or two contact blocks are used, respectively.
5. *These contact configurations are not available in maintained action.
6. Additional contact configurations available; contact IDEC for more details.

Non-illuminated Pushbuttons (Sub-assembled)

Contact Block		Mounting Adaptor		Operator*		Completed Unit
	+		+		=	

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Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
	Finger-safe Screw terminal	Single	1NO	YW-E10R
			1NC	YW-E01
		Double	2NO	YW-EW2R0
			2NC	YW-EW02
			1N0-1NC	YW-EW1R1
	Dummy block			CW-DB

Contact Block Mounting Adaptor

Style	Part Number
	CW-CN

① Button Color Code

Color	Code
Black	B
Green	G
Red	R
Blue	S
White	W
Yellow	Y

Operator*

Style			Black Bezel	Metallic Bezel
	Momentary	Round flush	CW1B-M1①	CW4B-M1①
		Round extended	CW1B-M2①	CW4B-M2①
	Maintained	Round flush	CW1B-A1①	CW4B-A1①
		Round extended	CW1B-A2①	CW4B-A2①

1. Specify a button color code in place of ①.
2. *Operator button is not removable from operator.

Pilot Lights (Assembled)

Shape	Operating Voltage	Black Bezel	Metallic Bezel	Illumination Color Code ②
Round Flush Lens CW□P-1 (black bezel)	6V AC/DC	CW1P-1EQ2②	CW4P-1EQ2②	A: amber G: green R: red S: blue PW: white Y: yellow
	12V AC/DC	CW1P-1EQ3②	CW4P-1EQ3②	
	24V AC/DC	CW1P-1EQ4②	CW4P-1EQ4②	
	100/120V AC	CW1P-1EQH②	CW4P-1EQH②	
	230/240V AC	CW1P-1EQM4②	CW4P-1EQM4②	
Round Dome Lens CW□P-2 (metallic bezel)	6V AC/DC	CW1P-2EQ2②	CW4P-2EQ2②	
	12V AC/DC	CW1P-2EQ3②	CW4P-2EQ3②	
	24V AC/DC	CW1P-2EQ4②	CW4P-2EQ4②	
	100/120V AC	CW1P-2EQH②	CW4P-2EQH②	
	230/240V AC	CW1P-2EQM4②	CW4P-2EQM4②	

1. Specify an illumination color code in place of ② in the Part Number
2. See page page 17 for dimensions.
3. See page page 21 for replacement LED modules.
4. Two dummy blocks are installed.

Pilot Lights (Sub-assembled)

Contact Block*		LED Module		Mounting Adaptor		Operator		Lens		Completed Unit
	+		+		+		+		=	

*2 dummy blocks are required for each completed pilot light.

Contact Block

Style		Part Number
	Dummy block	CW-DB

Contact Block Mounting Adaptor

Style	Part Number
	CW-CN

Lens

Style		Part Number
	Round flush	CW9Z-L11①
	Round dome	CW9Z-L15①

1. In place of ①, specify the Lens/LED Color Code from table.

LED Module

Style	Part Number
	CW-EAQ ②①

1. In place of ①, specify the Lens/LED Color Code from table.
2. In place of ②, specify the Voltage Code from table.

Operator

Style	Black Bezel	Metallic Bezel
	CW1P-00	CW4P-00

① Lens/LED Color Code

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White*	PW or C
Yellow	Y

* Use PW for LED module, use C for lens.

② Voltage Code

Voltage	Code
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4
100/120V AC	H
230/240V AC	M4

Selector Switches (Assembled)

Shape	CW□S (Knob Operator)	ck bezel)	(metallic bezel)			

No. of Positions	Contact Configuration (Code)	Contact Block			Operator Position		L R Maintained	L R Spring return from right
		Mounting Position	Contact		L	R		
90° 2-position	1NO (10)	1	NO			●	CW□S-2E10	CW□S-21E10
		2	—		Dummy			
		3	—		Dummy			
	1NC (01)	1	—		Dummy		CW□S-2E01	CW□S-21E01
		2	—		Dummy			
		3	NC		●			
	1NO-1NC (11)	1	NO			●	CW□S-2E11	CW□S-21E11
		2	—		Dummy			
		3	NC		●			
	2NO (20)	1	NO			●	CW□S-2E20	CW□S-21E20
		2	—		Dummy			
		3	NO			●		
	2NC (02)	1	NC		●		CW□S-2E02	CW□S-21E02
		2	—		Dummy			
		3	NC		●			
	2NO-1NC (21)	1	NO			●	CW□S-2E21	CW□S-21E21
		2	NO			●		
		3	NC		●			
	1NO-2NC (12)	1	NO			●	CW□S-2E12	CW□S-21E12
		2	NC		●			
		3	NC		●			
	3NO (30)	1	NO			●	CW□S-2E30	CW□S-21E30
		2	NO			●		
		3	NO			●		
	3NC (03)	1	NC		●		CW□S-2E03	CW□S-21E03
		2	NC		●			
		3	NC		●			
	2NO-2NC (22)	1	NO/NC	NO		●	CW□S-2E22	CW□S-21E22
				NC	●			
		2	—		Dummy			
		3	NO/NC	NO		●		
				NC	●			
	4NO (40)	1	2NO	NO		●	CW□S-21E40	CW□S-21E40
				NO		●		
		2	—		Dummy			
		3	2NO	NO		●		
				NO		●		

1. Specify a bezel color code in place of □ in the part number: 1 (black bezel), 4 (metallic bezel).
2. Lever operator is also available. For dimensions, see page page 18.
3. To order a lever operator selector switch, insert L before E in the knob operator part number.
Example: Knob Operator part number CW1S-2E10 becomes CW1S-2LE10 for Lever Operator.

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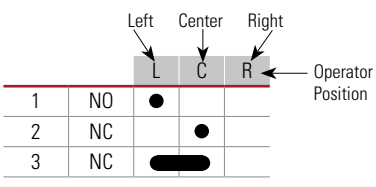
Lever Operator

CW1S-□L
(black bezel)

CW4S-□L
(metallic bezel)

Contact Block Mounting Position



No. of Positions	Contact Configuration (Code)	Contact Block		Operator Position			L C R Maintained	L C R Spring return from right	L C R Spring return from left	L C R Spring return two-way
		Mounting Position	Type	L	C	R				
45° 3-position	1NO-1NC (11)	1	NO	●			CW□S-3E11	CW□S-31E11	CW□S-32E11	CW□S-33E11
		2	—	Dummy						
		3	NC	▬						
	1NO-1NC (11N1)	1	NC		▬		CW□S-3E11N1	CW□S-31E11N1	CW□S-32E11N1	CW□S-33E11N1
		2	—	Dummy						
		3	NO			●				
	1NO-1NC (11N2)	1	NO	●			CW□S-3E11N2	CW□S-31E11N2	CW□S-32E11N2	CW□S-33E11N2
		2	NC		●					
		3	—	Dummy						
	1NO-1NC (11N3)	1	—	Dummy			CW□S-3E11N3	CW□S-31E11N3	CW□S-32E11N3	CW□S-33E11N3
		2	NC		●					
		3	NO			●				
	1NO-1NC (11N4)	1	—	Dummy			CW□S-3E11N4	CW□S-31E11N4	CW□S-32E11N4	CW□S-33E11N4
		2	NO	●		●				
		3	NC	▬						
	2NO (20)	1	NO	●			CW□S-3E20	CW□S-31E20	CW□S-32E20	CW□S-33E20
		2	—	Dummy						
		3	NO			●				
	2NO (20N1)	1	—	Dummy			CW□S-3E20N1	CW□S-31E20N1	CW□S-32E20N1	CW□S-33E20N1
		2	NO	●		●				
		3	NO			●				
	2NC (02)	1	NC		▬		CW□S-3E02	CW□S-31E02	CW□S-32E02	CW□S-33E02
		2	—	Dummy						
		3	NC	▬						
	2NC (02N1)	1	—	Dummy			CW□S-3E02N1	CW□S-31E02N1	CW□S-32E02N1	CW□S-33E02N1
		2	NC		●					
		3	NC	▬						
	2NO-1NC (21)	1	NO	●			CW□S-3E21	CW□S-31E21	CW□S-32E21	CW□S-33E21
		2	NO	●		●				
		3	NC	▬						
	2NO-1NC (21N1)	1	NO	●			CW□S-3E21N1	CW□S-31E21N1	CW□S-32E21N1	CW□S-33E21N1
		2	NC		●					
		3	NO			●				
	1NO-2NC (12)	1	NO	●			CW□S-3E12	CW□S-31E12	CW□S-32E12	CW□S-33E12
		2	NC		●					
		3	NC	▬						
	1NO-2NC (12N1)	1	NC		▬		CW□S-3E12N1	CW□S-31E12N1	CW□S-32E12N1	CW□S-33E12N1
		2	NO	●		●				
		3	NC	▬						
	3NO (30)	1	NO	●			CW□S-3E30	CW□S-31E30	CW□S-32E30	CW□S-33E30
		2	NO	●		●				
		3	NO			●				
	3NC (03)	1	NC		▬		CW□S-3E03	CW□S-31E03	CW□S-32E03	CW□S-33E03
		2	NC		●					
		3	NC	▬						
	2NO-2NC (22)	1	NO/NC NO	●			CW□S-3E22	CW□S-31E22	CW□S-32E22	CW□S-33E22
			NO/NC NC		▬					
		2	—	Dummy						
		3	NO/NC NO			●				
			NO/NC NC	▬						
	4NO (40)	1	2NO NO	●			CW□S-3E40	CW□S-31E40	CW□S-32E40	CW□S-33E40
			2NO NO	●						
		2	—	Dummy						
		3	2NO NO			●				
			2NO NO			●				
	2NO-2NC (22N2)	1	2NC NC		▬		CW□S-3E22N2	CW□S-31E22N2	CW□S-32E22N2	CW□S-33E22N2
			2NC NC		▬					
		2	—	Dummy						
		3	2NO NC			●				
			2NO NC			●				

1. Specify a bezel color code in place of □ in the Part Number, 1 (black bezel), 4 (metallic bezel)
2. For the contact block mounting position, see page 10.
3. Lever operator is also available. For dimensions, see page page 18.
4. To order a lever operator selector switch, insert L before E in the knob operator part number.

Example: Knob Operator part number CW1S-3E11 becomes CW1S-3LE11 for Lever Operator.

Selector Switches (Sub-assembled)

Contact Block	Mounting Adaptor	Operator	Completed Unit

Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
	Finger-safe Screw terminal	Single	1NO	YW-E10R
			1NC	YW-E01
		Double	2NO	YW-EW2R0
			2NC	YW-EW02
			1N0-1NC	YW-EW1R1
	Dummy block			CW-DB

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Contact Block Mounting Adaptor

Style	Part Number
	CW-CN

Operator

Style	Position	Handle	Description	Black Bezel	Metallic Bezel
(knob operator shown)	2 position	Knob	Maintained	CW1S-2	CW4S-2
			Spring return from right	CW1S-21	CW4S-21
		Lever	Maintained	CW1S-2L	CW4S-2L
			Spring return from right	CW1S-21L	CW4S-21L
	3 position	Knob	Maintained	CW1S-3	CW4S-3
			Spring return from right	CW1S-31	CW4S-31
			Spring return from left	CW1S-32	CW4S-32
			Spring return two-way	CW1S-33	CW4S-33
		Lever	Maintained	CW1S-3L	CW4S-3L
			Spring return from right	CW1S-31L	CW4S-31L
			Spring return from left	CW1S-32L	CW4S-32L
			Spring return two-way	CW1S-33L	CW4S-33L

Lever or knob is supplied with operator

Key Selector Switches (Assembled)

Shape	CW□K (black bezel) metallic bezel)						
No. of Positions	Contact Configuration	Contact Block		Operator Position		L R Maintained	L R Spring return from right
		Mounting Position	Type	L	R		
90° 2-position	1NO (10)	1	NO		●	CW□K-2AE10	CW□K-21BE10
		2	—	Dummy			
		3	—	Dummy			
	1NC (01)	1	—	Dummy		CW□K-2AE01	CW□K-21BE01
		2	—	Dummy			
		3	NC	●			
	1NO-1NC (11)	1	NO		●	CW□K-2AE11	CW□K-21BE11
		2	—	Dummy			
		3	NC	●			
	2NO (20)	1	NO		●	CW□K-2AE20	CW□K-21BE20
		2	—	Dummy			
		3	NO		●		
	2NC (02)	1	NC	●		CW□K-2AE02	CW□K-21BE02
		2	—	Dummy			
		3	NC	●			
	2NO-1NC (21)	1	NO		●	CW□K-2AE21	CW□K-21BE21
		2	NO		●		
		3	NC	●			
	1NO-2NC (12)	1	NO		●	CW□K-2AE12	CW□K-21BE12
		2	NC	●			
		3	NC	●			
	3NO (30)	1	NO		●	CW□K-2AE30	CW□K-21BE30
		2	NO		●		
		3	NO		●		
	3NC (03)	1	NC	●		CW□K-2AE03	CW□K-21BE03
		2	NC	●			
		3	NC	●			
	2NO-2NC (22)	1	NO/NC NO		●	CW□K-2AE22	CW□K-21BE22
			NC	●			
		2	—	Dummy			
		3	NO/NC NO		●		
			NC	●			
	4NO (40)	1	2NO NO		●	CW□K-2AE40	CW□K-21BE40
			NO		●		
		2	—	Dummy			
		3	2NO NO		●		
			NO		●		

1. Specify a bezel color code in place of □ in the Part Number: 1 (black bezel), 4 (metallic bezel).
2. On the spring-returned models, the key can be released only from the maintained position. On the maintained models, the key can be released from any position. Key retained positions are also available. See below.
3. Two keys are supplied.
4. Key cylinder material: Metal
5. Besides the standard key (key number 0H), six other keys are also available. See below.
6. For the contact block mounting position, see page 14.
7. For dimensions, see page page 19.
8. When ordering an optional key or optional key retained positions, specify designation codes as shown below:

Example: CW1K-2AE10-1H

Key removal position code
2-position
- A: Removable in all positions
- B: Removable in left only
- C: Removable in right only

3-position
- A: Removable in all positions
- B: Removable in left and center
- C: Removable in right and center
- D: Removable in center only
- E: Removable in right and left
- G: Removable in left only
- H: Removable in right only

blank): Standard key (0H, reversible)
1H to 2H: Reversible key
3H to 6H: Non-reversible keyy

Note:
Key number is indicated on the key cylinder.
Standard keys do not have a key number indication.

Key Selector Switches

No. of Positions	Contact Configuration	Contact Block: Mounting Position	Contact Block: Type	Operator Position: L	C	R	Maintained	Spring return from right	Spring return from left	Spring return two-way
45° 3-position	1NO-1NC (11)	1	NO	●			CW□K-3AE11	CW□K-31BE11	CW□K-32CE11	CW□K-33DE11
		2	—	Dummy						
		3	NC	▬						
	1NO-1NC (11N1)	1	NC		▬		CW□K-3AE11N1	CW□K-31BE11N1	CW□K-32CE11N1	CW□K-33DE11N1
		2	—	Dummy						
		3	NO			●				
	1NO-1NC (11N2)	1	NO	●			CW□K-3AE11N2	CW□K-31BE11N2	CW□K-32CE11N2	CW□K-33DE11N2
		2	NC		●					
		3	—	Dummy						
	1NO-1NC (11N3)	1	—	Dummy			CW□K-3AE11N3	CW□K-31BE11N3	CW□K-32CE11N3	CW□K-33DE11N3
		2	NC		●					
		3	NO			●				
	1NO-1NC (11N4)	1	—	Dummy			CW□K-3AE11N4	CW□K-31BE11N4	CW□K-32CE11N4	CW□K-33DE11N4
		2	NO	●		●				
		3	NC	▬						
	2NO (20)	1	NO	●			CW□K-3AE20	CW□K-31BE20	CW□K-32CE20	CW□K-33DE20
		2	—	Dummy						
		3	NO			●				
	2NO (20N1)	1	—	Dummy			CW□K-3AE20N1	CW□K-31BE20N1	CW□K-32CE20N1	
		2	NO	●		●				
		3	NO			●				
	2NC (02)	1	NC		▬		CW□K-3AE02	CW□K-31BE02	CW□K-32CE02	
		2	—	Dummy						
		3	NC	▬						
	2NC (02N1)	1	—	Dummy			CW□K-3AE02N1	CW□K-31BE02N1	CW□K-32CE02N1	
		2	NC		●					
		3	NC	▬						
	2NO-1NC (21)	1	NO	●			CW□K-3AE21	CW□K-31BE21	CW□K-32CE21	
		2	NO	●		●				
		3	NC	▬						
	2NO-1NC (21N1)	1	NO	●			CW□K-3AE21N1	CW□K-31BE21N1	CW□K-32CE21N1	
		2	NC		●					
		3	NO			●				
	1NO-2NC (12)	1	NO	●			CW□K-3AE12	CW□K-31BE12	CW□K-32CE12	
		2	NC		●					
		3	NC	▬						
	1NO-2NC (12N1)	1	NC		▬		CW□K-3AE12N1	CW□K-31BE12N1	CW□K-32CE12N1	CW□K-33DE12N1
		2	NO	●		●				
		3	NC	▬						
	3NO (30)	1	NO	●			CW□K-3AE30	CW□K-31BE30	CW□K-32CE30	CW□K-33DE30
		2	NO	●		●				
		3	NO			●				
	3NC (03)	1	NC		▬		CW□K-3AE03	CW□K-31BE03	CW□K-32CE03	CW□K-33DE03
		2	NC		●					
		3	NC		▬					
	2NO-2NC (22)	1	NO/NC: NO	●			CW□K-3AE22	CW□K-31BE22	CW□K-32CE22	CW□K-33DE22
			NO/NC: NC		▬					
		2	—	Dummy						
		3	NO/NC: NO			●				
			NO/NC: NC	▬						
	4NO (40)	1	2NO: NO	●			CW□K-3AE40	CW□K-31BE40	CW□K-32CE40	CW□K-33DE40
			2NO: NO	●						
		2	—	Dummy						
		3	2NO: NO			●				
			2NO: NO			●				
	2NO-2NC (22N2)	1	2NC: NC		▬		CW□K-3AE22N2	CW□K-31BE22N2	CW□K-32CE22N2	CW□K-33DE22N2
			2NC: NC		▬					
		2	—	Dummy						
		3	2NC: NC			●				
			2NC: NC			●				

Mounting Position

Operator Position		Left (L)	Center (C)	Right (R)
1	NO	●		
2	NC		●	
3	NC	▬		

1. Specify a bezel color code in place of □ in the Type No.: 1 (black bezel), 4 (metallic bezel)
2. On the spring-returned types, the key can be released only from the maintained position. On the maintained types, the key can be released from every position. Key retained positions are also available. See page 13.
3. Two keys are supplied.
4. Key cylinder material: Metal
5. Besides the standard key (key number 0H), six other keys are also available. See page 13.
6. For the contact block mounting position, see above
7. For dimensions, see page 19.

Key Selector Switches (Sub-assembled)

Contact Block	Mounting Adaptor	Operator	Completed Unit

Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
	Finger-safe Screw terminal	Single	1NO	YW-E10R
			1NC	YW-E01
		Double	2NO	YW-EW2R0
			2NC	YW-EW02
			1N0-1NC	YW-EW1R1
	Dummy block			CW-DB

Contact Block Mounting Adaptor

Style	Part Number
	CW-CN

Operator

Style	Position	Description	Black Bezel	Metallic Bezel
	2 position	Maintained, key removable all positions	CW1K-2A	CW4K-2A
		Maintained, key removed left only	CW1K-2B	CW4K-2B
		Maintained, key removed right only	CW1K-2C	CW4K-2C
		Spring return from right	CW1K-21B	CW4K-21B
	3 position	Maintained, key removable all positions	CW1K-3A	CW1K-3A
		Maintained, key removed left and center only	CW1K-3B	CW4K-3B
		Maintained, key removed right and center only	CW1K-3C	CW4K-3C
		Maintained, key removed center only	CW1K-3D	CW4K-3D
		Maintained, key removed left and right only	CW1K-3E	CW4K-3E
		Maintained, key removed left only	CW1K-3G	CW4K-3G
		Maintained, key removed right only	CW1K-3H	CW4K-3H
		Spring return from right, key removed left and center only	CW1K-31B	CW4K-31B
		Spring return from right, key removed center only	CW1K-31D	CW4K-31D
		Spring return from right, key removed left only	CW1K-31G	CW4K-31G
		Spring return from left, key removed right and center only	CW1K-32C	CW4K-32C
		Spring return from left, key removed center only	CW1K-32D	CW4K-32D
		Spring return from left, key removed right only	CW1K-32H	CW4K-32H
		Spring return two-way, key removed center only	CW1K-33D	CW4K-33D

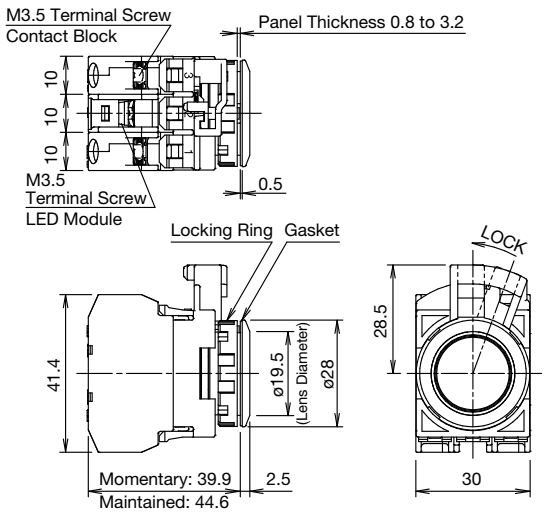
2 keys supplied with operator.

Dimensions (mm)

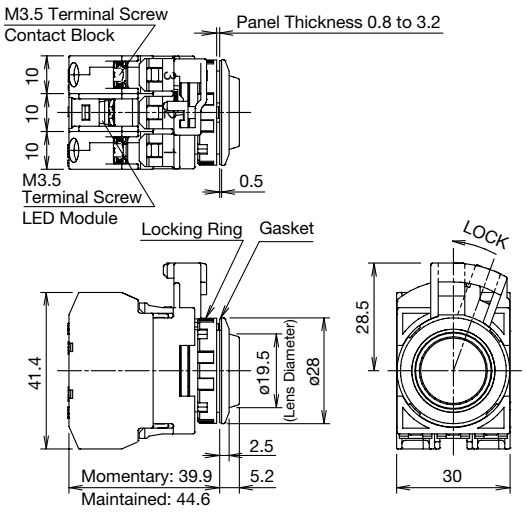
Illuminated Pushbuttons

1 to 2 Contacts

Round Flush

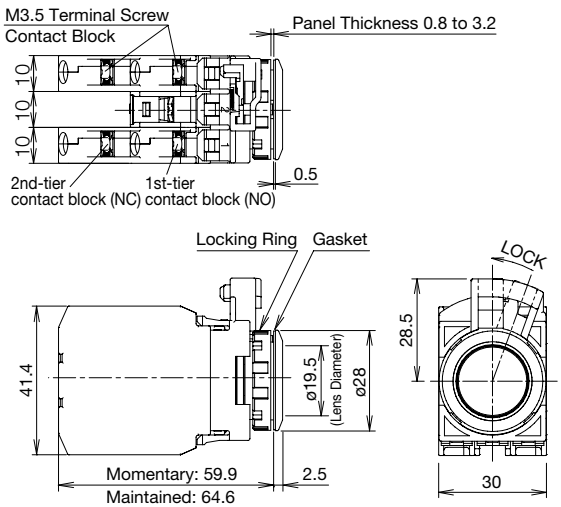


Round Extended



4 Contacts

Round Flush



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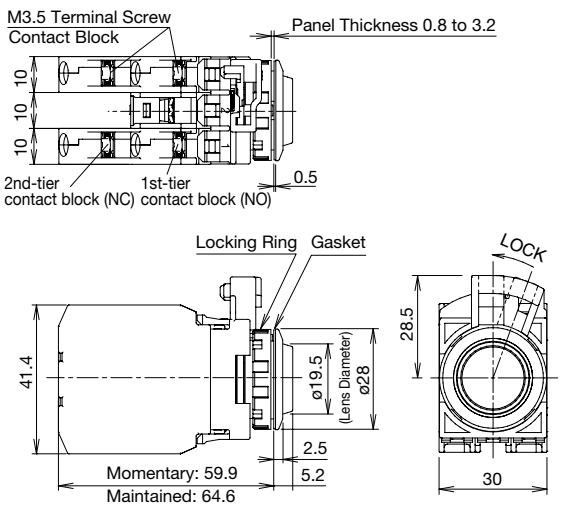
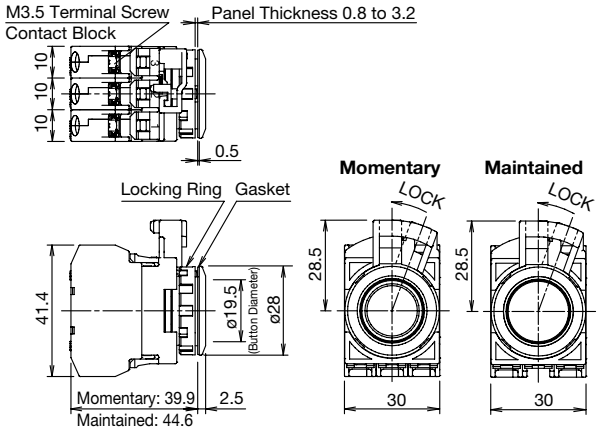


Pushbuttons

1 to 2 Contacts

Round Flush



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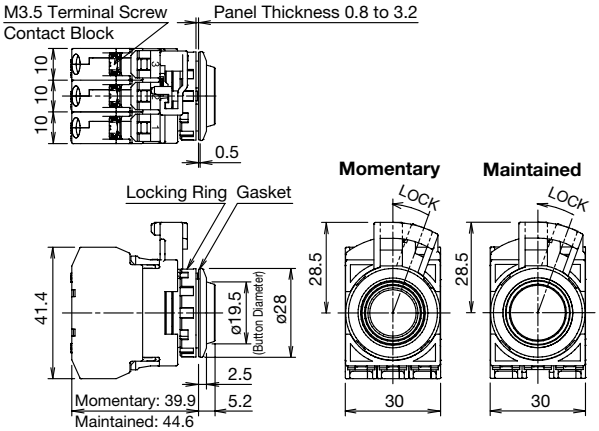
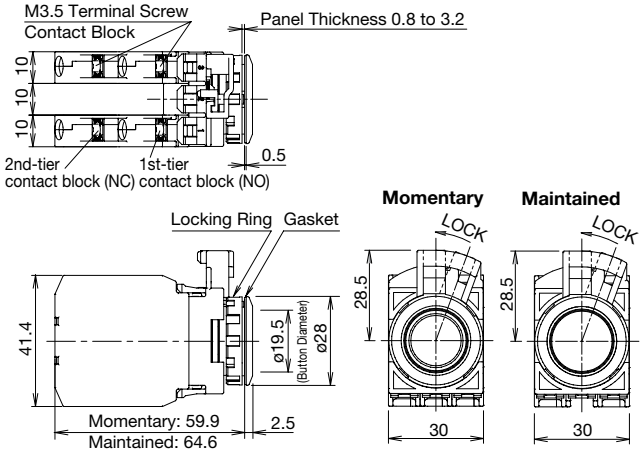
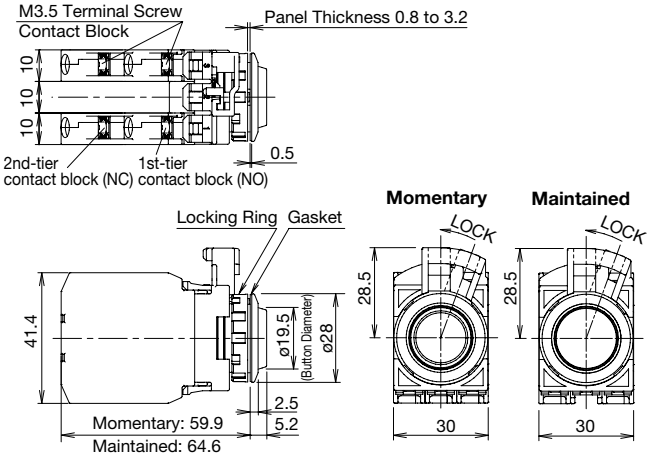


4 Contacts

Round Flush

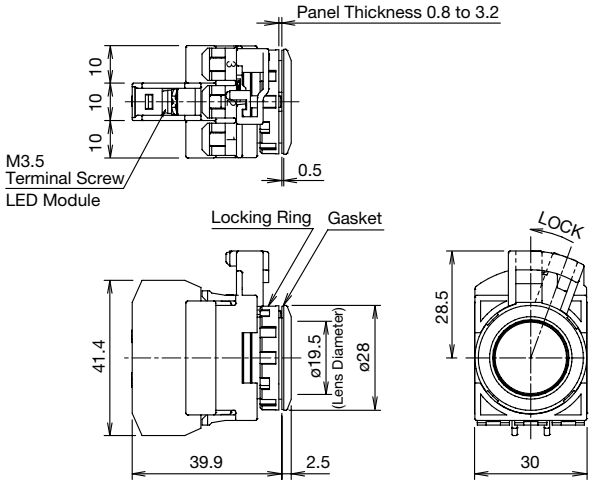


Round Extended

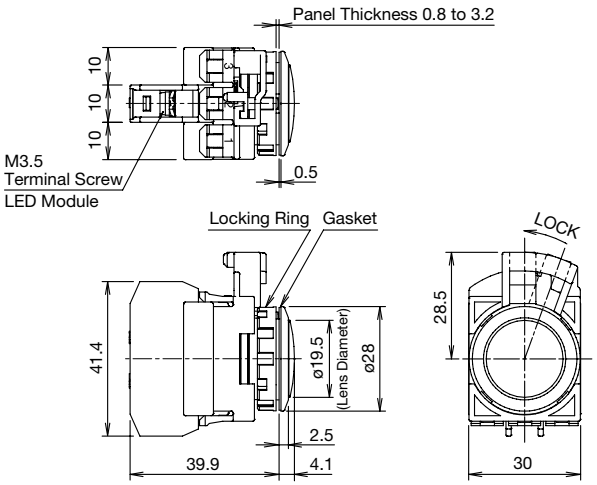


Pilot Lights

Round Flush



Round Dome

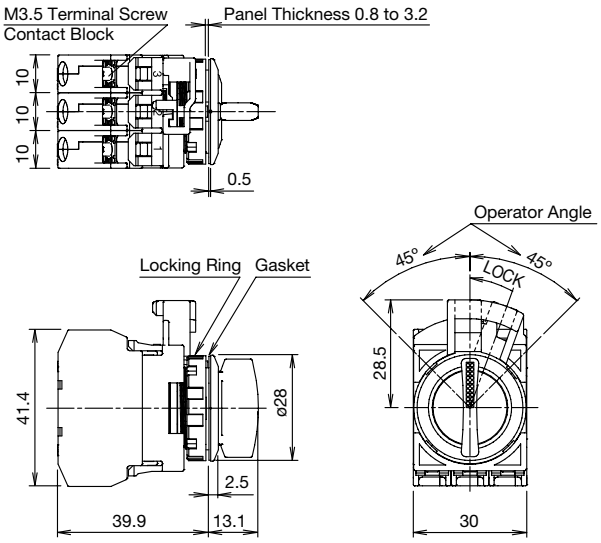


Dimensions (mm)

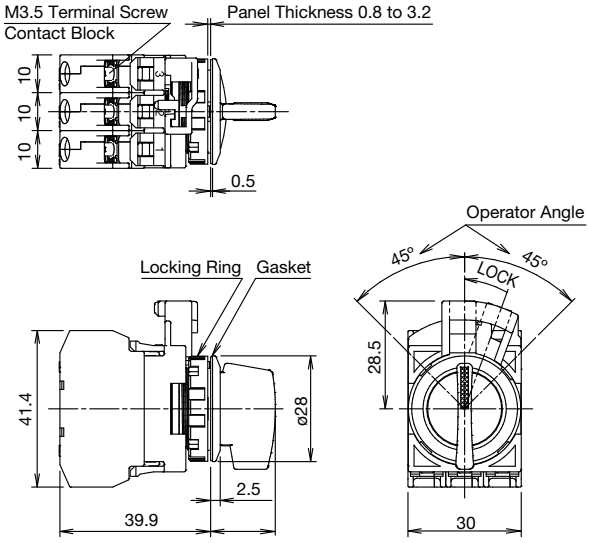
Selector Switches

1 to 3 Contacts

Knob Operator

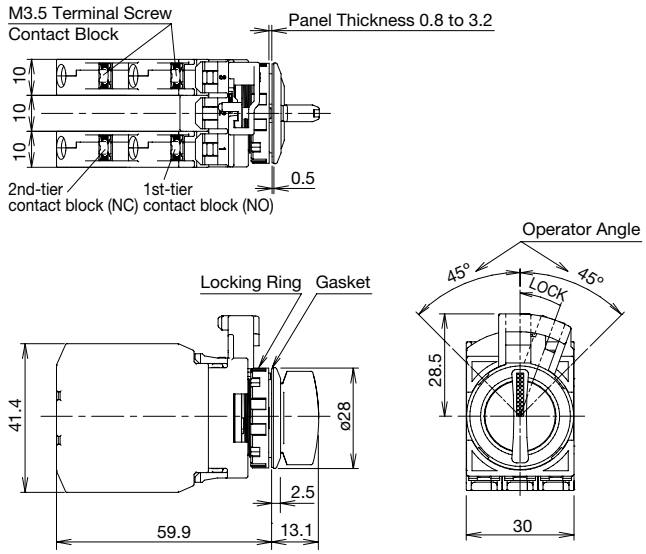


Lever Operator

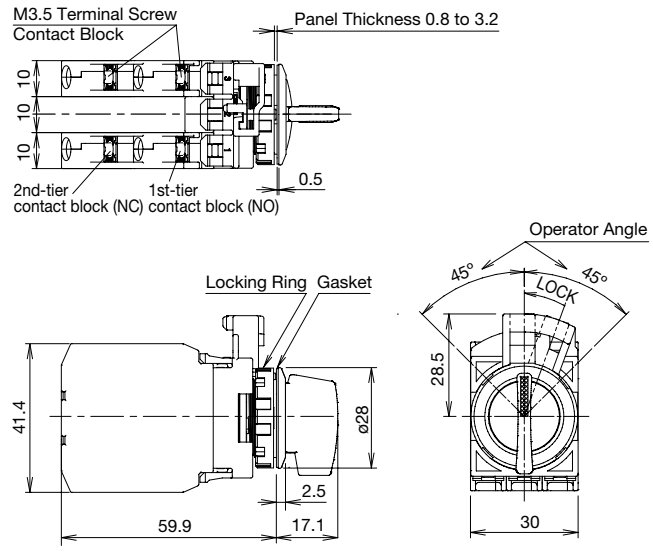


4 Contacts

Knob Operator



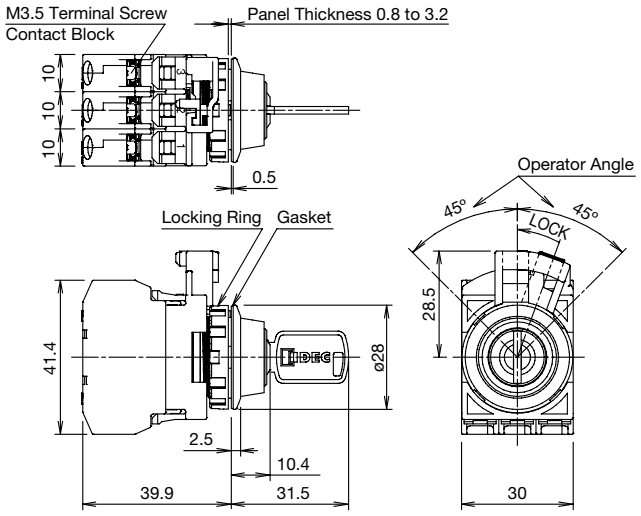
Lever Operator



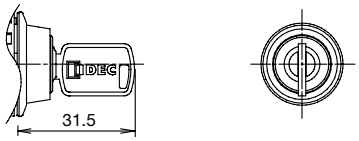
Dimensions (mm)

Key Selector Switches

1 to 3 Contacts

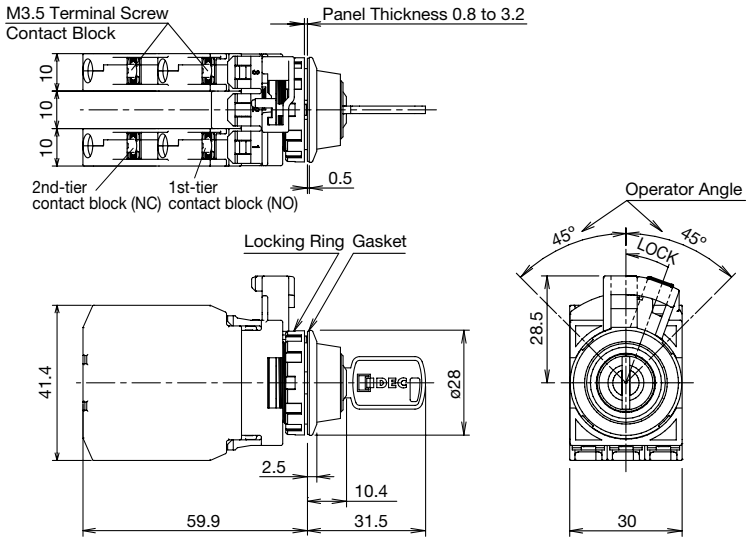


Key No: 0H to 2H (reversible key)



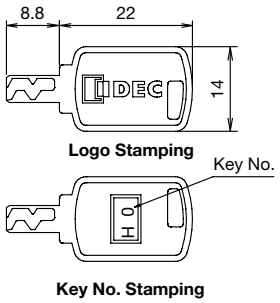
Key No: 3H to 6H (non-reversible key)

4 Contacts

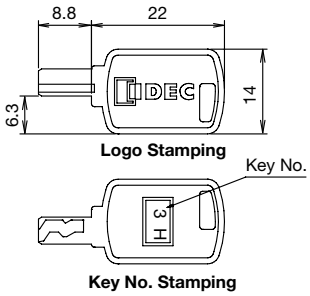


Keys

Reversible Key

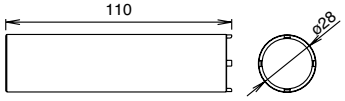


Non-reversible Key

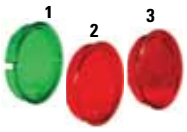
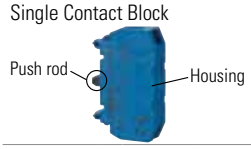


Acccessories/Parts

Accessories

Shape	Material	Part Number	Package Quantity	Remarks
Locking Ring Wrench	Brass	MW9Z-T1	1	• Used to tighten the locking ring when installing the CW series control unit in a panel cut-out. • Weight: Approx 150g 
Mounting Hole Plug	Polyamide (black)	LW9Z-BP1	1	• Used to plug an unnecessary ø22.3mm hole in the panel. • Degree of protection: IP65 • Panel thickness: 0.8 to 6.0 mm

Replacement Parts

Shape		Material	Part Number	Remarks
Lens 	1 Round Flush	Polyalylate	CW9Z-L11②	Color code ②: A (amber), C (clear), G (green), R (red), S (blue), Y (yellow) Use a clear (C) lens for white (PW) illumination. 1: For illuminated pushbutton, pilot light 2: For illuminated pushbutton 3: For pilot light
	2 Round Extended	Polyalylate	CW9Z-L12②	
	3 Round Dome	Polyalylate	CW9Z-L15②	
Single Contact Block 		1NO	YW-E10R	Push rod color: Black Housing color: Blue/black Terminal No.: 3-4
		1NC	YW-E01	Push rod color: Red Housing color: Reddish purple Terminal No.: 1-2
Double Contact Block		2NO	YW-EW2R0	Push rod color: black Housing color: blue and black Terminal No. 1st tier: 13-14, 2nd tier: 23-24
		2NC	YW-EW02	Push rod color: red Housing color: reddish purple Terminal No. 1st tier: 11-12, 2nd tier: 21-22
		1NO, 1NC	YW-EW1R1	Push rod color: gray Housing color: reddish purple/blue Terminal No. 1st tier: 13-14, 2nd tier: 21-22
Rubber Boot (clear)			CW9Z-D11	
			CW9Z-D12	
Dummy Block		Polyamide (black)	CW-DB	
Locking Ring		Polyamide (black)	CW9Z-LN	
Gasket		Nitrile rubber	CW9Z-WM	Waterproof gasket between CW control unit bezel and the mounting panel.
Nameplate		Plastic	CWAM-OB	
Spare Key		Zinc (nickel-plated)	LA9Z-SK-□	Specify a key No. in place of □. 0H: Standard key (reversible) 1H to 2H: Reversible key 3H to 6H: Non-reversible key For dimensions, see page 17.

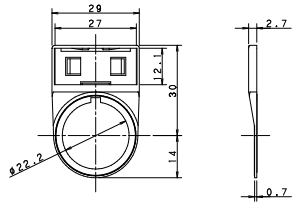
LED Modules

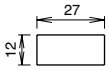
Shape	Operating Voltage Range	Current Draw	Part Number	Illumination Color Code ②
	6V AC/DC±10%	15 mA	CW-EAQ2②	Specify an illumination color code in place of ② in the Part Number A: amber G: green PW: white R: red S: blue
	12V AC/DC±10%	15 mA	CW-EAQ3②	
	24V AC/DC±10%	16.5 mA	CW-EAQ4②	
	100/120V AC±10%	18 mA	CW-EAQH②	
	230/240V AC±10%	18 mA	CW-EAQM4②	

Use a white (PW) LED module for yellow (Y) illumination.

Nameplate

CWAM–Black Plastic



Nameplate (blank insert included)	CWAM-OB	
Nameplate (engraved)	CWAM-①	
Additional Insert (blank)	HWNP-O	HWNP Dimensions
Additional Insert (engraved)	HWNP-①	

1. In place of ①, insert either the standard legend code from table below or custom engraving delimited by " ".
2. Standard engravings are available at no charge.

Standard Legend Codes

Pushbuttons				Pushbuttons/Selector Switches				Selector Switches	
Legend	Code	Legend	Code	Legend	Code	Legend	Code	Legend	Code
AUTO	101	OPEN	116	AUTO-MAN	201	REV-FOR	216	AUTO-MAN-OFF	301
CLOSE	102	OUT	117	CLOSE-OPEN	202	RUN-JOG	217	AUTO-OFF-MAN	302
DOWN	103	RAISE	118	DOWN-UP	203	RUN-SAFE	218	CLOSE-OFF-OPEN	303
EMERG.STOP	104	RESET	119	FAST-SLOW	204	SAFE-RUN	219	DOWN-OFF-SLOW	304
FAST	105	REVERSE	120	FOR-REV	205	SLOW-FAST	220	FAST-OFF-SLOW	305
FORWARD	106	RUN	121	HAND-AUTO	206	START-STOP	221	FOR-OFF-REV	306
HAND	107	SLOW	122	HIGH-LOW	207	STOP-START	222	LEFT-OFF-RIGHT	307
HIGH	108	START	123	JOG-RUN	208	UP-DOWN	223	LOWER-OFF-RAISE	308
IN	109	STOP	125	LEFT-RIGHT	209	OI (Int'l OFF ON)	250	OFF-MAN-AUTO	309
INCH	110	TEST	126	LOWER-RAISE	210			OFF-SLOW-FAST	310
JOG	111	UP	127	MAN-AUTO	211			OFF-1-2	311
LOW	112	I (Int'l On)	150	OFF-ON	212			OPEN-OFF-CLOSE	312
LOWER	113	O (Int'l Off)	151	ON-OFF	213			SLOW-OFF-FAST	313
OFF	114	EMO	152	OPEN-CLOSE	214			SUMMER-OFF-WINTER	314
ON	115			RAISE-LOWER	215			UP-OFF-DOWN	315
								1-OFF-2	316
								HAND-OFF-AUTO	317

1. To order engraved nameplates, add legend code to nameplate part number.
2. Character height based on the number of characters and size of nameplate. Standard character size is 3/16".
3. Nameplates with standard legends are the same list price as blank nameplates.

Nameplates Order Form — CW Series

Copy this order form and use it to specify Letter Height, Custom Engravings, Location of Engraving on Nameplate, and Quantity Desired.

To ensure engraving accuracy, fax it to your IDEC representative or Distributor.

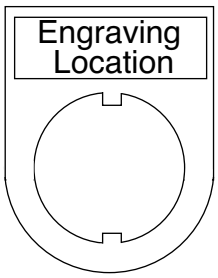
Your Company: _____ IDEC Rep/Distributor Contact: _____

Name: _____ PO number (if known): _____

Telephone: _____ IDEC Rep/Distributor Phone: _____

Fax & Email: _____ IDEC Rep/Distributor Fax & Email: _____

CWAM Nameplate



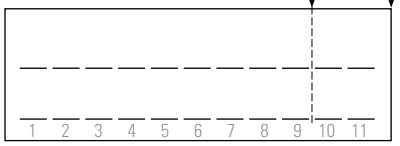
Step 1.
Choose Letter Size - 7/64" or 1/8".
Check the box for the letter size you want. Then write your lettering in box below the check boxes. Note: 1/8" size letters cannot exceed 9 characters.

Step 2.
Specify Quantity.
Enter the number of nameplates desired in the box on the right.

Qty

7/64" Letter Size ☐ 11 characters maximum (for 7/64" size letters)

1/8" Letter Size ☐ 9 characters maximum (for 7/8" size letters)



Sample Letter Sizes
7/64" Letters: A B C D
1/8" Letters: A B C D

Safety Precautions

Turn off the power to CW series switches before installation, removal, wiring and maintenance. Failure to turn power off may cause electrical shocks or fire hazard.

When wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque of 1.0 to 1.3 N·m. Failure to tighten the terminal screws may cause overheating and fire.

Operating Instructions

Notes for Operation

When using the CW series switches in a safety-related circuit of a control system, observe safety rules and regulations of each country concerning particular applications of the actual machines and facilities. Perform risk assessment before operation to ensure safety.

Operating Conditions

In corrosive gas or high-temperature, high-humidity environments, contact failure due to corrosion or color change or breakage of the housing may occur.

Main parts of the CW series switches are made of plastic. Do not scratch the surface with a sharp object or apply excessive electric shock or load, otherwise the switches may be damaged. In particular, keep the button, lens and bezel from such damage, otherwise appearance and function may be impaired.

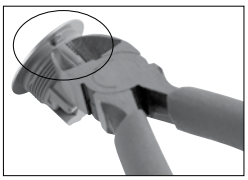
Do not apply detergents, cutting oils, or chemicals which may impair the function and appearance of the CW series switches.

Panel Mounting

First remove the contact block and then the locking ring from the operator. Insert the operator into the panel cut-out from the front, tighten the locking ring from the back, then install the contact block to the operator.

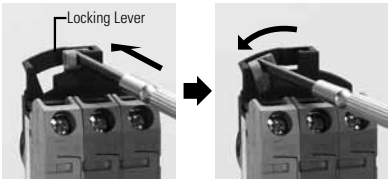
Mounting Hole

1. Mounting hole dimensions are in compliance with IEC60947-5-1.
2. If the anti-rotation projection is removed from the bezel, CW series switches can be mounted in ø22.3mm mounting holes. To remove the anti-rotation projection, remove the gasket and use cutting pliers to break the projection.



Removing and Installing the Contact Unit

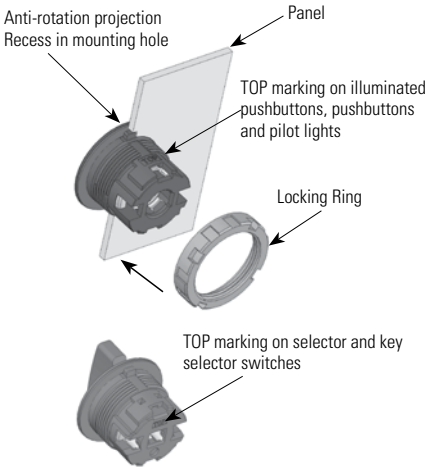
1. To remove the contact block from the operator, push the yellow locking lever and turn it to the left.



2. To install, align the TOP marking on the operator with the TOP marking on the contact block mounting adaptor, and turn the locking lever to the right.

Installation in Panel Cut-out

Remove the locking ring from the operator. With the anti-rotation projection on the operator aligned with the recess in the mounting hole, insert the operator into the mounting hole. Tighten the locking ring from the rear of the panel.



Note for Panel Mounting

When installing the operator in a panel cut-out, use the optional locking ring wrench (MW9Z-T1) to tighten the locking ring to a recommended tightening torque of 1.2 N·m. Do not use pliers and do not tighten excessively, otherwise the operator may be damaged.

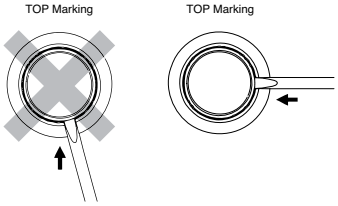
Illuminated Pushbuttons and Pilot Lights

Removing the Lens

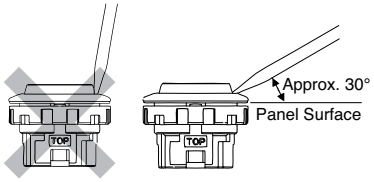
To remove the lens from an illuminated pushbutton or pilot light, insert a flat screwdriver under the flange of the lens at 90° from the TOP marking and twist the screwdriver.

Do not insert the screwdriver too far and do not apply excessive force to the lens, otherwise the bezel surface may be damaged.

Screwdriver Insertion Direction

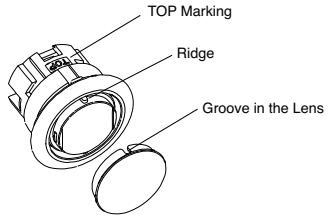


Screwdriver Insertion Angle



Installing the Lens

Turn the groove in the lens to the TOP marking on the operator housing. With the groove aligned with the ridge, press the lens in.



Marking

Marking film can be applied for inscriptions or identification.

Applicable Marking Film Size

Illuminated Pushbutton (Round Flush) Pilot Light (Round Flush, Round Extended)	Illuminated Pushbutton (Round Extended)
13.8, ø15.9	12.6, ø15.9

Thickness: 0.2 mm maximum
Film material: Polyester (recommended)
Note: Film is not supplied and must be provided by the user.

Operating Instructions con't

Pushbuttons

Pushbutton caps cannot be removed. Do not tamper with the cap using a screwdriver or pliers, otherwise it may be damaged.

Selector Switches

Turn the selector operator or key to the detent positions.

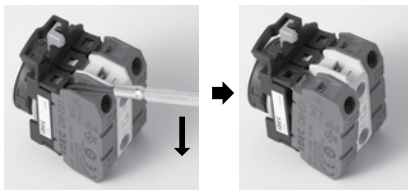
Key Selector Switches

To prevent malfunction and damage, take the following precautions.

- Completely insert the key before turning.
- Do not remove the key while turning.
- Besides the standard key (0H), six other keys are available. Use only a key with a number that matches the number on the switches' key cylinder. (The standard key does not have a key number.)
- Keys are available in two shapes.
  -0H (standard), 1H, 2H: reversible keys
  -3H, 4H, 5H, 6H: non-reversible keys
  Make sure of correct insertion direction.

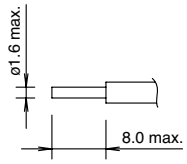
Contact Blocks and LED Modules

To remove the contact block from the operator, insert a flat screwdriver under the latch and push the screwdriver down as shown below. Before removing the LED module, first remove all contact blocks, and then remove the LED module in the same manner.



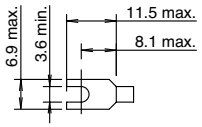
Wiring

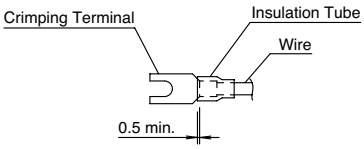
Applicable Wires
Stranded wire: 2.0 mm^2 maximum (14AWG)
Solid wire: ø1.6 mm maximum



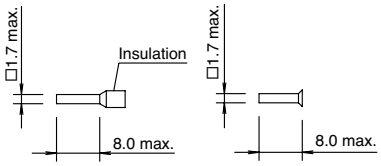
One or two wires can be connected to the terminal.

Applicable Crimping Terminals
Spade terminal
When using crimping terminals, be sure to use insulating tubes or insulated crimping terminals.





Ferrule
When connecting two ferrules to one terminal, use ferrules without insulation.



When using spade terminals or ferrules, ensure that they are inserted completely. Ring terminals cannot be used.

Screw Tightening Torque
Tighten the M3.5 terminal screws to a recommended torque of 1.0 to 1.3 N·m.

16mm LB Series Miniature Switches

With a choice of metallic or black plastic bezels, and flush or standard mounting, our newest miniature flush mount switches add style and safety to any application. All LB switches are UL recognized, TUV approved, CSA certified and CE marked, as well as provide an IP65 degree of protection. Available in illuminated pushbuttons, pushbuttons, pilot lights, selector switches and key selector switches, these switches are perfect for use with instrumentation, communication equipment, computer peripheral, telecom, medical equipment, food and beverage processing equipment, semi-conductor equipment, non-industrial applications (train cab, parking machines, audio/visual equipment), panels and more!

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sales@ca.IDEC.com

Australia
IDEC Australia Pty. Ltd.
Tel: +61-3-8523-5900
sales@au.IDEC.com

Japan
IDEC Corporation
Tel: +81-6-6398-2571
marketing@IDEC.co.jp

United Kingdom
IDEC Electronics Ltd.
Tel: +44-1256-321000
sales@uk.IDEC.com

Germany
IDEC Elektrotechnik GmbH
Tel: +49-40-253054-0
service@IDEC.de

Hong Kong
IDEC (H.K.) Co., Ltd.
Tel: +852-2803-8989
info@hk.IDEC.com

China/Beijing
IDEC (Beijing) Corporation
Tel: +86-10-6581-6131

China/Shanghai
IDEC (Shanghai) Corporation
Tel: +86-21-6135-1515
idec@cn.IDEC.com

China/Shenzhen
IDEC (Shenzhen) Corporation
Tel: +86-755-8356-2977

Singapore
IDEC Asia Pte. Ltd.
Tel: +65-6746-1155
info@sg.IDEC.com

Taiwan
IDEC Taiwan Corporation
Tel: +886-2-2698-3929
service@tw.IDEC.com

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