HW Series — 22mm IEC Style Global Pushbuttons

Key features:

- Locking lever removable contact blocks
- Finger-safe IP20 contacts as standard, other terminal styles available
- Tamperproof construction
- All E-stops meet EN418 and are compliant with SEMI S2 standards
- Worldwide approvals
- Easy to assemble
- Choice of black plastic or metallic front bezels
- Incandescent or LED illumination
- Transformer or full voltage
- Slow make double break self cleaning contacts

HW: The Best Engineered Switch in the World

IDEC's HW switches are "The best engineered switch in the world" for a reason. Carrying the CE mark, UL, CSA, CCC (Chinese), and TUV approvals, these switches are designed for use in almost any part of the world.

Complete with finger-safe contact blocks offering IP20 protection, these 7/8" (22mm) switches include illuminated and non-illuminated pushbuttons, pilot lights, selector switches, and emergency stop switches.

All switches also incorporate mechanically keyed safety locking levers, ensuring correct installation and maintaining safety in high-vibration applications.

File No. E68961

File No. LR92374

Registration No. R9551089 (E-stops)
Registration No. R50054316 (Dual Pushbuttons)
Registration No. J9650511 (Pilot Lights)
Registration No. J9551458 (all other switches)

TÜV Rheinland
Certificate No.
2005010305145656

Specifications

Electrical	Rated Operational Characteristics	AC-15: A600 or Ue = 250V, Ie = 3A (NO, NC, NO-EM, NC-LB) DC-13: P600 or Ue = 125V, Ie = 1.1A (NO, NC) DC-13: Q600 or Ue = 125V, Ie = 0.9A (NO-EM, NC-LB)
	Maximum Inrush Current	40 A (40 ms)
	Rated Insulation Voltage	600V
	Rated Switching Over-Voltage	Less than 4kV, conforming to IEC60947-1
	Rated Impulse Withstanding Voltage	4kV for contact circuit, 2.5kV for lamp circuit
	Rated Thermal Current	10 Amp
	Minimum Switching Capacity	5 mA at 3V AC/DC
	Electrical Reliability	MTBF < 1 fault for 10 million operation cycles (3V DC, 5mA)
	Lamp Ratings	Incandescent: 1 W LEDs: 6V/17mA max, 12V & 24V/11mA max, 120 & 240V/10mA max

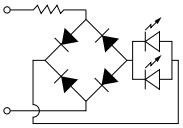
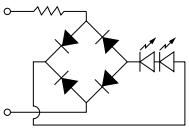
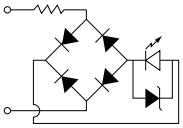
Mechanical	Contact Operation	Slow break NC or NO, self-cleaning
	Positive Action Operation (Emergency Stops with NC contacts)	5.5mm to 10mm travel to latch, 45N minimum force to latch 10mm maximum travel, 1,800 operations per hour maximum for a Pushlock Turn Reset 900 operations per hour maximum for a Push-Pull
	Operating Force	Flush and extended pushbuttons—with 1NO or 1NC contact: 6.2±2N (momentary), 7.0±2N (maintained) Additional contacts—1NO or 1NC: +3.2N (momentary), + 3.3N (maintained)
	Recommended Terminal Torque	0.8 N m (7.1 in lb.)
	Applicable Wire Size	Minimum 1 x 22 AWG, max. 2 x 14 AWG or 1 x 12 AWG
	Contact Resistance	Initial contact resistance of 50mΩ or less
	Contact Gap	4mm (NO and NC), 2mm (NO-EM and NC-LB)
	Horsepower Rating	Reference Value: 1/4 HP @ 120V (1ø non-reversing), 1HP @ 240V (3ø non-reversing)
	Contact Material	Silver (gold plated contacts available - contact IDEC)
	Operating Temperature	Operation: –25 to +50°C (without freezing), Storage: –40 to +70°C (without freezing)
	Vibration Resistance	10 to 55Hz, 98m/sec^2 (10G) conforming to IEC6068-2-6
	Shock Resistance	980m/sec^2 (100G) conforming to IEC6068-2-7
	Mechanical Life	Momentary pushbuttons: 5,000,000 (900 operations per hour), All other switches: 500,000
Standards & Approvals	Conforming to Standards	EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 No.14
	Approvals File No. E68961 File No. LR92374 Registration No. R9551089 (E-stops) Registration No. R50054316 (Dual Pushbuttons) Registration No. J9650511 (Pilot Lights) Registration No. J9551458 (all other switches) TÜV Rheinland Certificate No. 2005010305145656	CSA: pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V) UL: pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V) TÜV: pushbuttons and selector switches: A600=P600 (NO, NC)/Q600 (NO-EM, NC-LB) pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V)
	Electric Shock Protection	Class 0 conforming to IEC60536
	Degree of Protection (conforming to IEC60529) (conforming to NEMA ICS6-110)	IP65 (from front of the panel) IP20 (Type HW-F contact block) NEMA 1, 2, 3, 3R, 3S, 4, 4X, 5, 12, 13 (from front of panel)
	Pollution Degree (conforming to IEC60947-1)	3 for switches not using a transformer, 2 for switches using a transformer
	External Short-Circuit Protection	10A 250V fuse conforming to IEC60269-1
	Terminal Referencing	Conforming to CENELEC EN50005

Contact Ratings Pushbuttons Illuminated Pushbuttons Selector Switches Illuminated Selector Switches Pushbutton Selectors	Contact Block	Type HW-C/HW-F /HW-G
	Rated Insulation Voltage	600V
	Rated Continuous Current	10A
	Contact Ratings by Utilization Category IEC 60947-5-1	AC-15 (A600) DC-13 (P600)

Characteristics	Operational Voltage			24V	48V	50V	110V	220V	440V
	Operational Current	AC 50/60 Hz	AC-12 Control of resistive loads & solid state loads	10A	—	10A	10A	6A	2A
			AC-15 Control of electromagnetic loads (> 72VA)	10A	—	7A	5A	3A	1A
		DC	DC-12 Control of resistive loads & solid state loads	8A	5A	—	2.2A	1.1A	—
			DC-13 Control of electromagnets	5A	2A	—	1.1A	0.6A	—

For dimensions, see page 601.

LED Lamp Ratings (LSTD Type)

Model			LSTD-6②	LSTD-1②	LSTD-2②	LSTD-H2②	LSTD-M4②
Lamp Base			BA9S/13				
Rated Voltage			6V AC/DC	12V AC/DC	24V AC/DC	120V AC	240V AC
Voltage Range			6V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%	120V AC ±5%	240V AC ±5%
Current Draw	AC	A, R, W: G, S:	17mA 8mA	11mA	11mA	10mA	10mA
	DC	A, R, W: G, S:	14mA 5.5mA	10mA	10mA	–	–
Color Code			A (amber), G (green), R (red), S (blue), W (white)				
Lamp Base Color			Same as illumination color				
Voltage Marking			Die stamped on the base				
Life (reference value)			Approx. 50,000 hours (The luminance reduces to 50% the initial intensity when used on complete DC.)				
Internal Circuit			A, R, W	A, R, W			
							
			G, S				
							

In place of ②, specify the Lens/LED Color Code.

Illuminated Selector Switches 2-Position (Assembled)

2-Position Illuminated Selector Switches

Style						Part Number	
Contact	Mounting	Operator Position L	Operator Position R	Type		Maintained	Spring Return from Right
		↖	↗			L R	L R
Operator Only						*HW⑤F-2②*	*HW⑤F-21②*
1NO-1NC	1 2	0 X	X 0	Full Voltage		HW⑤F-2F11Q④-②-③	HW⑤F-21F11Q④-②-③
				Transformer	120V 240V 480V	HW⑤F-2F11H2④-② HW⑤F-2F11M4④-② HW⑤F-2F11T8④-②	HW⑤F-21F11H2④-② HW⑤F-21F11M4④-② HW⑤F-21F11T8④-②
2NO	1 2	0 0	X X	Full Voltage		HW⑤F-2F20Q④-②-③	HW⑤F-21F20Q④-②-③
				Transformer	120V 240V 480V	HW⑤F-2F20H2④-② HW⑤F-2F20M4④-② HW⑤F-2F20T8④-②	HW⑤F-21F20H2④-② HW⑤F-21F20M4④-② HW⑤F-21F20T8④-②
2NO-2NC	1 2 3 4	0 X 0 X	X 0 X 0	Full Voltage		HW⑤F-2F22Q④-②-③	HW⑤F-21F22Q④-②-③
				Transformer	120V 240V 480V	HW⑤F-2F22H2④-② HW⑤F-2F22M4④-② HW⑤F-2F22T8④-②	HW⑤F-21F22H2④-② HW⑤F-21F22M4④-② HW⑤F-21F22T8④-②

1. In place of ② specify Lens/LED color code.
2. In place of ③ specify Full Voltage code.
3. In place of ④ specify Lamp code.
4. In place of ⑤ enter 1 for plastic bezel or 4 for metal bezel.
5. For nameplates, see page 596.
6. For contact assembly part numbers, see page 600.
7. Light is independent of switch position.
8. All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
9. Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
10. Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
11. **Yellow selector switch comes with white LED.**
12. Additional contact configurations available (up to 6 total contacts).
13. For Truth Tables see page 608.

② Lens/LED Color Code

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White	W
Yellow	Y

③ Full Voltage Code

Full Voltage Models	
Voltage	Code
6VAC/DC	6V
12VAC/DC	12V
24VAC/DC	24V
120V AC (LED only)	120V
240V AC (LED only)	240V

④ Lamp Code

Lamp	Code
Incandescent	Blank
LED	D

⑤ Bezel Code

Type	Code
Plastic	1
Metal	4

Part Number Structure

H W 1 F – 21 F 20 Q D – G – 24V

Bezel
1: Plastic
4: Metal

Position
2: Maintained
21: Spring Return from Right

Contact Arrangement
11: 1NO-1NC
20: 2NO
22: 2NO-2NC

Illumination Circuit
Q: Full Voltage
H2: Transformer 120V AC
M4: Transformer 240V AC
T8: Tranformer 480V AC

Lamp Code
D: LED
Blank: Incandescent

Lens Color
A: Amber S: Blue
G: Green W: White
R: Red Y: Yellow

Lamp Voltage
(Full voltage units only)
6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC*
240V: 240V AC*
*LED only

Illuminated Selector Switches 2-Position (Replacement Parts)

Transformer*	+	Contact Blocks	+	Lead Holder	+	Mounting Adaptor	+	Safety Lever Lock	+	Lamp	+	Anti-Rotation Ring	+	Operator	+	Lens	=	Completed Unit
																		

*Transformer not needed with full voltage models.

Lamp Circuit Components

Style	Description	Terminals	Part Number
Lead Holder 	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
Dummy Block with Full Voltage Adaptor 	For use with odd number of contacts.	Fingersafe	HW-DA1FB
		Exposed	HW-DA1B
		Spring Up	HW-GA1
Full Voltage Adaptor 	For use with even number of contacts.	Fingersafe	TW-DA1FB
		Exposed	TW-DA1B
Transformer Unit (6V secondary voltage) 	120VAC 240VAC 480VAC	Fingersafe	TW-F126B TW-F246B TW-F486B
	120V 240V 480V	Spring Up	HW-T126 HW-T246 HW-L486
	120V 240V 480V	Exposed	TW-T126B TW-T246B TW-T486B
DC-DC Converter	110VDC		HW-L16D

1. HW-GA1 "Dummy Block with full voltage adaptor" does not require the use of HW-LH3.
2. DC-DC convertor features spring-up terminals.
3. DC-DC convertor applicable voltage range 90-140V DC.

Operators

Style	Description	Plastic Bezel	Metal Bezel
	Maintained	HW1F-2	HW4F-2
	Spring return from right	HW1F-21	HW4F-21

Illuminated knobs must be ordered separately.

Contact Blocks

Style	Contacts	1NO	1NC
	Standard Fingersafe (IP20)	HW-F10 HW-F10R (early make)	HW-F01 HW-F01R (late break)
	Spring-Up Terminal	HW-G10 HW-G10R (early make)	HW-G01 HW-G01R (late break)
	Exposed Screw Terminal	HW-C10 HW-C10R (early make)	HW-C01 HW-C01R (late break)

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL

1. Used to mount contact blocks to operator (first pair only).
2. IDEC strongly recommends using the safety lever lock to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Safety Lever Lock

Style	Part Number
	HW9Z-LS

Illuminated Knob

Appearance	Part Number
	HW9Z-FDY-②

In place of ②, specify the Color Code.

② Lens/LED Color Code

Color	Code	Color	Code
Amber	A	Blue	S
Green	G	White	W
Red	R	Yellow	Y

Anti-Rotation Ring

Style	Part Number
	HW9Z-RL

Use with notched panel cutout to prevent unit rotation.

Lamps

Style	Voltage	Part Number
LED 	6V AC/DC	LSTD-6②
	12V AC/DC	LSTD-1②
	24V AC/DC	LSTD-2②
	120V AC	LSTD-H2②
	240V AC	LSTD-M4②
Incandescent 	6V AC/DC	IS-6
	12V AC/DC	IS-12
	24V AC/DC	IS-24

1. In place of ②, specify the LED Color Code.
2. The LED contains a current-limiting resistor and reverse polarity protection diodes.
3. Use white LED for yellow lens. Yellow LED not available.

Illuminated Selector Switches 3-Position (Assembled)

3-Position Illuminated Selector Switches

Style						Part Number			
Contact	Mounting	Operator Position L	Operator Position C	Operator Position R	Type	Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way
		L	C	R		L C R	L C R	L C R	L C R
Operator Only						*HW⑤F-3②*	*HW⑤F-31②*	*HW⑤F-32②*	*HW⑤F-33②*
1NO-1NC	1 2	0 0	X 0	X X	Full Voltage	HW⑤F-3F11Q④-②-③	HW⑤F-31F11Q④-②-③	HW⑤F-32F11Q④-②-③	HW⑤F-33F11Q④-②-③
					Transformer 120V	HW⑤F-3F11H2④-②	HW⑤F-31F11H2④-②	HW⑤F-32F11H2④-②	HW⑤F-33F11H2④-②
					Transformer 240V	HW⑤F-3F11M4④-②	HW⑤F-31F11M4④-②	HW⑤F-32F11M4④-②	HW⑤F-33F11M4④-②
					Transformer 480V	HW⑤F-3F11T8④-②	HW⑤F-31F11T8④-②	HW⑤F-32F11T8④-②	HW⑤F-33F11T8④-②
2NO	1 2	0 0	X 0	0 X	Full Voltage	HW⑤F-3F20Q④-②-③	HW⑤F-31F20Q④-②-③	HW⑤F-32F20Q④-②-③	HW⑤F-33F20Q④-②-③
					Transformer 120V	HW⑤F-3F20H2④-②	HW⑤F-31F20H2④-②	HW⑤F-32F20H2④-②	HW⑤F-33F20H2④-②
					Transformer 240V	HW⑤F-3F20M4④-②	HW⑤F-31F20M4④-②	HW⑤F-32F20M4④-②	HW⑤F-33F20M4④-②
					Transformer 480V	HW⑤F-3F20T8④-②	HW⑤F-31F20T8④-②	HW⑤F-32F20T8④-②	HW⑤F-33F20T8④-②
2NC	1 2	0 X	X X	X 0	Full Voltage	HW⑤F-3F02Q④-②-③	HW⑤F-31F02Q④-②-③	HW⑤F-32F02Q④-②-③	HW⑤F-33F02Q④-②-③
					Transformer 120V	HW⑤F-3F02H2④-②	HW⑤F-31F02H2④-②	HW⑤F-32F02H2④-②	HW⑤F-33F02H2④-②
					Transformer 240V	HW⑤F-3F02M4④-②	HW⑤F-31F02M4④-②	HW⑤F-32F02M4④-②	HW⑤F-33F02M4④-②
					Transformer 480V	HW⑤F-3F02T8④-②	HW⑤F-31F02T8④-②	HW⑤F-32F02T8④-②	HW⑤F-33F02T8④-②
2NO-2NC	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	Full Voltage	HW⑤F-3F22Q④-②-③	HW⑤F-31F22Q④-②-③	HW⑤F-32F22Q④-②-③	HW⑤F-33F22Q④-②-③
					Transformer 120V	HW⑤F-3F22H2④-②	HW⑤F-31F22H2④-②	HW⑤F-32F22H2④-②	HW⑤F-33F22H2④-②
					Transformer 240V	HW⑤F-3F22M4④-②	HW⑤F-31F22M4④-②	HW⑤F-32F22M4④-②	HW⑤F-33F22M4④-②
					Transformer 480V	HW⑤F-3F22T8④-②	HW⑤F-31F22T8④-②	HW⑤F-32F22T8④-②	HW⑤F-33F22T8④-②
4NO	1 2 3 4	X 0 X 0	0 0 0 0	0 X 0 X	Full Voltage	HW⑤F-3F40Q④-②-③	HW⑤F-31F40Q④-②-③	HW⑤F-32F40Q④-②-③	HW⑤F-33F40Q④-②-③
					Transformer 120V	HW⑤F-3F40H2④-②	HW⑤F-31F40H2④-②	HW⑤F-32F40H2④-②	HW⑤F-33F40H2④-②
					Transformer 240V	HW⑤F-3F40M4④-②	HW⑤F-31F40M4④-②	HW⑤F-32F40M4④-②	HW⑤F-33F40M4④-②
					Transformer 480V	HW⑤F-3F40T8④-②	HW⑤F-31F40T8④-②	HW⑤F-32F40T8④-②	HW⑤F-33F40T8④-②
4NC	1 2 3 4	0 X 0 X	X X X 0	X 0 X 0	Full Voltage	HW⑤F-3F04Q④-②-③	HW⑤F-31F04Q④-②-③	HW⑤F-32F04Q④-②-③	HW⑤F-33F04Q④-②-③
					Transformer 120V	HW⑤F-3F04H2④-②	HW⑤F-31F04H2④-②	HW⑤F-32F04H2④-②	HW⑤F-33F04H2④-②
					Transformer 240V	HW⑤F-3F04M4④-②	HW⑤F-31F04M4④-②	HW⑤F-32F04M4④-②	HW⑤F-33F04M4④-②
					Transformer 480V	HW⑤F-3F04T8④-②	HW⑤F-31F04T8④-②	HW⑤F-32F04T8④-②	HW⑤F-33F04T8④-②

1. In place of ② specify Lens/LED color code.
2. In place of ③ specify Full Voltage code.
3. In place of ④ specify Lamp code.
4. In place of ⑤ enter 1 for plastic bezel or 4 for metal bezel.
5. For nameplates, see page 596.
6. For contact assembly part numbers, see page 600.
7. Light is independent of switch position.
8. All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
9. Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
10. Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
11. **Yellow selector switch comes with white LED.**
12. Additional contact configurations available (up to 6 total contacts).
13. For Truth Tables see page 608.

② Lens/LED Color

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White	W
Yellow	Y

③ Full Voltage Code

Full Voltage Models	
Voltage	Code
6VAC/DC	6V
12VAC/DC	12V
24VAC/DC	24V
120V AC (LED only)	120V
240V AC (LED only)	240V

④ Lamp Code

Lamp	Code
Incandescent	Blank
LED	D

⑤ Bezel Code

Type	Code
Plastic	1
Metal	4

Part Number Structure

H W 1 F – 31 F 20 Q D – G – 24V

Bezel
1: Plastic
4: Metal

Position
3: Maintained
31: Spring Return from Right
32: Spring Return from Left
33: Spring Return 2-Way

Contact Arrangement
11: 1NO-1NC
20: 2NO
02: 2NC
22: 2NO-2NC
40: 4NO
04: 4NC

Illumination Circuit
Q: Full Voltage
H2: Transformer 120V AC
M4: Transformer 240V AC
T8: Tranformer 480V AC

Lamp Code
D: LED
Blank: Incandescent

Lens Color
A: Amber
G: Green
R: Red
S: Blue
W: White
Y: Yellow

Full Voltage Code
6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC*
240V: 240V AC*
*LED only

Illuminated Selector Switches 3-Position (Replacement Parts)

Transformer*	+	Contact Blocks	+	Lead Holder	+	Mounting Adaptor	+	Safety Lever Lock	+	Lamp	+	Anti-Rotation Ring	+	Operator	+	Lens	=	Completed Unit
																		

*Transformer not needed with full voltage models.

Lamp Circuit Components

Style	Description	Terminals	Part Number
Lead Holder 	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
Dummy Block with Full Voltage Adaptor 	For use with odd number of contacts.	Fingersafe	HW-DA1FB
		Exposed	HW-DA1B
		Spring Up	HW-GA1
Full Voltage Adaptor 	For use with even number of contacts.	Fingersafe	TW-DA1FB
		Exposed	TW-DA1B
Transformer Unit (6V secondary voltage) 	120VAC 240VAC 480VAC	Fingersafe	TW-F126B TW-F246B TW-F486B
	120V 240V 480V	Spring Up	HW-T126 HW-T246 HW-L486
	120V 240V 480V	Exposed	TW-T126B TW-T246B TW-T486B
DC-DC Converter	110VDC		HW-L16D

1. HW-GA1 "Dummy Block with full voltage adaptor" does not require the use of HW-LH3.
2. DC-DC convertor features spring-up terminals.
3. DC-DC convertor applicable voltage range 90-140V DC.

Operators

Style	Description	Plastic Bezel	Metal Bezel
	Maintained	HW1F-3	HW4F-3
	Spring return from right	HW1F-31	HW4F-31
	Spring return from left	HW1F-32	HW4F-32
	2-Way spring return	HW1F-33	HW4F-33

Illuminated knobs must be ordered separately.

Contact Blocks

Style	Contacts	1NO	1NC
	Standard Fingersafe (IP20)	HW-F10 HW-F10R (early make)	HW-F01 HW-F01R (late break)
	Spring-Up Terminal	HW-G10 HW-G10R (early make)	HW-G01 HW-G01R (late break)
	Exposed Screw Terminal	HW-C10 HW-C10R (early make)	HW-C01 HW-C01R (late break)

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL

1. Used to mount contact blocks to operator (first pair only).
2. IDEC strongly recommends using the safety lever lock to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Safety Lever Lock

Style	Part Number
	HW9Z-LS

Illuminated Knob

Appearance	Part Number
	HW9Z-FDY-②

In place of ②, specify the Color Code.

② Lens/LED Color Code

Color	Code	Color	Code
Amber	A	Blue	S
Green	G	White	W
Red	R	Yellow	Y

Anti-Rotation Ring

Style	Part Number
	HW9Z-RL

Use with notched panel cutout to prevent unit rotation.

Lamps

Style	Voltage	Part Number
LED 	6V AC/DC	LSTD-6②
	12V AC/DC	LSTD-1②
	24V AC/DC	LSTD-2②
	120V AC	LSTD-H2②
	240V AC	LSTD-M4②
Incandescent 	6V AC/DC	IS-6
	12V AC/DC	IS-12
	24V AC/DC	IS-24

1. In place of ②, specify the LED Color Code.
2. The LED contains a current-limiting resistor and reverse polarity protection diodes.
3. Use white LED for yellow lens. Yellow LED not available.