

## HW: The Best Engineered Switch in the World

 Key features include:- 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
- Available assembled or as sub-components
- Choice of black plastic or metallic front bezels
- Incandescent or LED illumination
- Transformer or full voltage
- Slow make double break self cleaning contacts

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 $7 / 8^{\prime \prime}(22 \mathrm{~mm})$ 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



4 kV for contact circuit, 2.5 kV for lamp circuit
10 Amp
Slow break NC or NO, self-cleaning
5.5 mm to 10 mm travel to latch

45 N minimum force to latch
mm maximum travel
1,800 operations per hour maximum for a Pushlock Turn Reset
Flush and extended pushbuttons-with 1NO or 1NC contact: $6.2 \pm 2 \mathrm{~N}$ (momentary), $7.0 \pm 2 \mathrm{~N}$ (maintained)
Additional contacts-1NO or 1NC: +3.2 N (momentary), +3.3 N (maintained)
Conforming to CENELEC EN50005
0.8 N m (7.1 in lb.)

10A 250V fuse conforming to IEC60269-1
Minum $1 \times 22$ AWG, max. $2 \times 14$ AWG or $1 \times 12$ AWG

4 mm (NO and NC), 2mm (NO-EM and NC-LB)
Reference Value: 1/4 HP @ 120V (1ø non-reversing), 1HP @ 240V (3ø non-reversing)
MTBF < 1 fault for 10 million operation cycles (3V DC, 5mA)

LEDs: 6V/17mA max, 12V \& 24V/11mA max, 120 \& 240V/10mA max
40 A ( 40 ms )
Silver (gold plated contacts available - contact IDEC)

Pushbuttons
Selector Switches
Illuminated Selector Switches

Operational
Operational
Current
DC $\quad$ DC-13 Control of electromagnets

1. For dimensions, see page A3-100.
2. For life expectancy derating curves, see page A3-105.

Pilot Lights (Assembled)
Part Numbers: Pilot Lights

| Style |  |  | Plastic Bezel | Metal Bezel |
| :---: | :---: | :---: | :---: | :---: |
| Round Flush <br> (Full Voltage type shown) | Full Voltage |  | HW1P-1FQ(4)-(2)-3 | HW4P-1FQ(4)-(2)-3 |
|  | Transformer | $\begin{aligned} & 120 \mathrm{~V} \text { AC } \\ & 240 \mathrm{VAC} \\ & 480 \mathrm{~V} \end{aligned}$ | HW1P-1FH2(4)-(2) HW1P-1FM44-(2) HW1P-1FT84-(2) | HW4P-1FH2(4-(2) HW4P-1FM44-(2) HW4P-1FT84-(2) |
|  | DC-DC Converter* | 110V DC | HW1P-1D2(4)-(2) | - |
| Dome <br> (Full Voltage type shown) | Full Voltage |  | HW1P-2FO(4)-(2)-3 | HW4P-2FO(4)-(2)-3 |
|  | Transformer | 120 V AC 240V AC 480 V AC | HW1P-2FH2(4)-(2) HW1P-2FM44-(2) HW1P-2FT8(4)-(2) | HW4P-2FH2(4)-(2) HW4P-2FM44-(2) HW4P-2FT8(4)-(2) |
|  | DC-DC Converter* | 110 V DC | HW1P-2D2(4)-(2) | - |
| Square Flush <br> (Transformer type shown) | Full Voltage |  | HW2P-1FO(4)-(2)-3 | - |
|  | Transformer | 120 V AC 240V AC 480 V AC | HW2P-1FH2(4)-(2) HW2P-1FM44-(2) HW2P-1FT8(4)-(2) | - |
|  | DC-DC Converter* | 110V DC | HW2P-1D2(4)-(2) | - |
| Jumbo Dome | $\begin{aligned} & \text { Full Voltage** } \\ & 24 V \text { AC/DC } \end{aligned}$ | LED | HW1P-504-(2) |  |
|  |  | Incandescent | HW1P-507-(2) |  |

1. In place of (2), specify the Lens/LED Color Code.
2. In place of (3)specify the Full Voltage Code from table below.
3. In place of (4) specify Lamp Type Code.
4. $* D C$-DC convertor voltage input from 90-140V DC, comes with spring up terminals only.
5. ${ }^{* *}$ Available with spring up terminals and 24 V only.
6.For nameplates and accessories, see page A3-96.

7 For dimensions, see page A3-100.

| (2) Lens/LED Color Code |
| :--- |
| Color |
| Amber |
| Green |
| Red |
| Blue |
| White |
| Yellow |

(3) Full Voltage Code

| Voltage | Code |
| :--- | :--- |
| $6 \mathrm{~V} \mathrm{AC/DC}$ | 6 |
| $12 \mathrm{~V} \mathrm{AC} / D C$ | 12 |
| 24 V AC/DC | 24 |
| 120 V AC (LED only) | 120 |
| 240 VAC (LED only) | 240 |

(4) Lamp Type Code

| Lamp | Code |
| :--- | :--- |
| Incandescent | Blank |
| LED | D |

## Dimensions - HW Series

## Non-Illuminated Pushbuttons



## Monolever



Pilot Lights


