US91 Optic Compact 3/Compact 3P

Publication Number: PB3119 DEC/11

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Dewhurst US91 Optic Pushbutton

The US91 OPTIC C3/C3P Pushbutton is a modern twist on a classic – a clean timeless appearance. The illuminated Braille Tag shows clear identification and can be illuminated in a wide variety of colours. The US91 Optic is available with any of our standard circular pressels be that the Belly Button (shown here), the classic US91 blank, bulls-eye or legend – the choice is yours.

Features & Benefits

- Code compliant Braille with 0.625" / 16 mm high illuminated legend
- A halo of light between the pressel and surround via a patented hidden recess encircles the pressel
- Legend and halo can be constantly illumination at half intensity, switching to full intensity for indication of position or call acceptance. The legend can also be illuminated with a different colour if desired
- Braille tag legend and dots can be illuminated
- Also available in C3P body for Low Profile surface-mounted fixtures (1" / 25.4 mm)
- Braille tag finish options - stainless steel or brass in either brush or mirror. Or black anodised aluminium
- Meets vandal resistance standard EN81-71 cat 2
- Meets EN81-1/2, EN81-72, EN81-73 & EN60529 (IP54), B44-10 & ASME 17.1

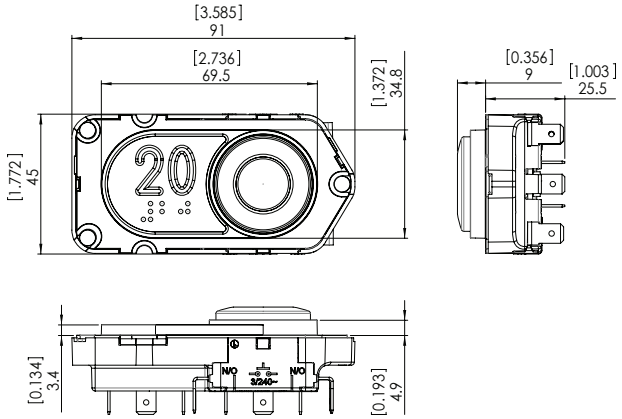
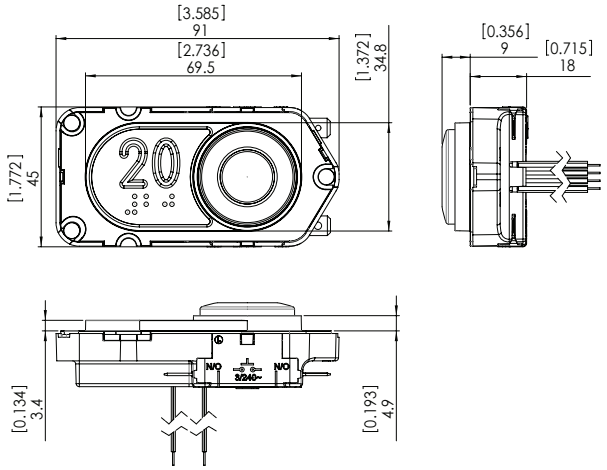
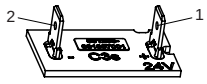
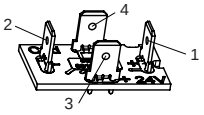
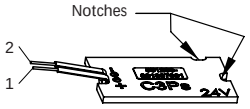
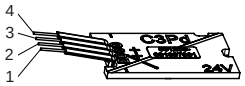
Illumination, Finishes & Marking

- Pressel halo and Braille tag illumination can be controlled separately
- Wide range of illumination colours including red, yellow, green, blue and white (for pressel halo or tag)
- Range of surround finishes - satin chrome, mirrored chrome, brass, antique brass and black chrome
- Braille tag plate finishes - brush stainless steel, mirror stainless steel, brush brass, mirrored brass, black anodised aluminium moulded in opal polycarbonate
- Wide range of Braille tag legends & symbols are available

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Dimensions

<table>
<tr><th colspan="2">C3</th><th colspan="2">C3P</th></tr>
<tr><td colspan="2">
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<tr><th>SINGLE</th><th>DUAL/BI/BI+</th><th>SINGLE</th><th>DUAL/BI/BI+</th></tr>
<tr><td>
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</td></tr>
<tr><td>1 = FULL (+)
2 = FULL (-)</td><td>1 = FULL (+)
2 = FULL (-)
3 = DIM/BACKGROUND (+)
4 = DIM/BACKGROUND (-)</td><td>1 = FULL (+)
2 = FULL (-)</td><td>1 = FULL (-)
2 = FULL (+)
3 = DIM/BACKGROUND (+)
4 = DIM/BACKGROUND (-)</td></tr>
<tr><td colspan="2">Please note the orientation of PCB notches
to the tab (C3) or cable (C3P) numbers</td><td>1 = RED
2 = BROWN OR BLACK</td><td>1 = BROWN OR BLACK
2 = RED
3 = ORANGE OR RED
4 = YELLOW OR BLACK</td></tr>
</table>

Available Braille tag finishes:

Stainless Steel



Black Anodised Aluminium



US91 Optic Pushbuttons can be supplied loose or incorporated into stations with 1.0mm to 3.0mm [20Ga to 11Ga] stainless steel faceplates. Nominal mounting vertical pitch is 50 mm [1.968”] and horizontal pitch is 95mm [3.740”]. If the US91 Optic pushbuttons are supplied loose, spacers are required to accommodate the differing faceplate thickness.

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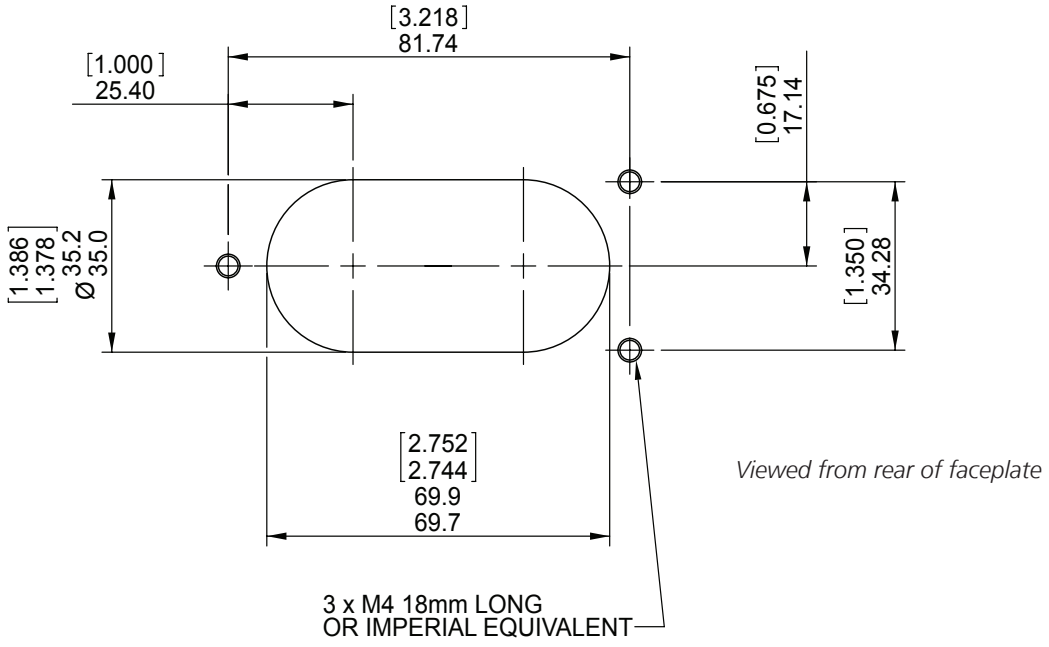
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Technical Details

Weight:	120grms
Moulded in:	High grade polycarbonate (flame retardant)
Pushbutton size:	C3 = 91.0mm [3.585”] w x 45.0mm [1.772”] h x 25.5mm [1.004”] d
	C3P = 91.0mm [3.585”] w x 45.0mm [1.772”] h x 18.0mm [0.715”] d
Pressel area:	707mm^2 [27.83in^2]
Button force:	3.5N [0.79lb$_F$]
LED current:	20mA (typically)
LED voltage:	6V, (only available in red and yellow) 12V or 24V
Braille tag plate material:	Brush/mirrored stainless steel, brush/mirrored brass, black anodised aluminium
Braille tag legend height:	16mm [0.625”]
Operation:	Wiping action, slow make and break with solid silver contacts
Ratings:	10 amps max
	240V a.c. at 3.0 amps max. resistive loads - min. no . of operations: 1 x 10^6
	240V d.c. at 0.5 amps max. resistive loads - min. no. of operations: 2 x 10^6
	110V d.c. at 100mA max. inductive TC40ms - min. no. of operations: 1 x 10^6
	24V d.c. at 20mA max. resistive loads - min. no. of operations: 5 x 10^6
	12V d.c. at 5mA max. resistive loads - min. no. of operations: 10 x 10^6
Contact arrangements:	2 N/O, 2 N/C or 1 N/O + 1 N/C*
Surround finish:	Satin chrome, mirrored chrome, brass, antique brass and black chrome
Code compliance:	Meets EN81-1/2, EN81-72, EN81-73 & EN60529 (IP54), B44-10 & ASME 17.1
IP Rating:	EN60529 (IP54) frontal presentation

* Please note that it is possible for the N/O contact to make before the N/C contact has opened on the 1 N/O + 1 N/C configuration

Cutouts & Stud Positions



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Cleaning your US91 Optic Pushbutton

Many **Dewhurst** lift products are made of **polycarbonate** (Using GE's **Lexan**® or Bayer's **Makrolon**®).

The US91Optic is highly durable but the plastic parts can be damaged by aggressive cleaning agents, Dewhurst therefore recommends:



Clean the part with a **cotton cloth and warm water** before applying the cleaning product



Use **PH-neutral or slightly acid cleaning products only** (including aromatised ones) Ethylic alcohol, isopropyl alcohol or ethylene glycol based multipurpose cleaning products and dish soaps are suggested.



Dilute the cleaning product in warm water and apply using a wet cotton cloth.



Grease, glue and paint may be removed with ethylic alcohol or isopropyl alcohol.

Recommended Cleaning Products (*):

Europe	**North America**
Windus - Brial Top - Ecolab Mr. Proper Surfaces Delicates - Proctor & Gamble Palmolive, Colgate Palmolive	Formula 409® Cleaner Degreaser Joy®, Proctor & Gamble Windex, Drackett Products Palmolive, Colgate Palmolive

(*) Due to the vast number of cleaning products available on the market, the list of recommended products above is an illustration only

Note:

- Do not use abrasive cleaning agents
- Do not use sharp tools to remove dirt (chewing gum, glue, etc.)
- Do not use solvents based with Ketones, benzene, methanol, toluene (also known as methylbenzene or phenyl methane) or alkaline and ammonia based cleaning agents
- Do not use cleaning agents at high temperatures
- Do not leave cleaning agents on the parts for long periods: remove immediately after cleaning using a wet cotton cloth and warm water
- Do not use dry cotton cloths and sponges