



Pushbutton Types Compact 2 Micro US90-EN and US91-EN

Publication Number PB138/0508

Application

Dewhurst illuminated legend pushbuttons ensure a bright wide angle view in all lighting conditions and are tactile to aid the visually impaired. Compact 2 Micro is ideal for use in all types of lifts and similar installations including those which may be exposed to heavy duty or vandalism.

The EN pressel range is available in three background colours. Black for call, door open and door close buttons, yellow for alarm and green for the exit floor button in the lift car.

Operation of the pressel activates a patented switch technology called PushGate^{TM*}, a revolutionary magnet switch, having no parts that can fatigue. Illumination of the LED illuminator produces a halo of light between the pressel and its bezel via the patented hidden recess that encircles the pressel and illuminates the legend. Standard illumination is by 12V or 24V LED illumination. Single and dual illumination options are available - Single = full brightness, Dual = dim brightness and full brightness.

Installation

The pushbutton is securely held to the back of the faceplate by 2 off M4 x 16LG weldstuds, washers and nuts.

Compact 2 Micro Pushbuttons can be supplied loose, or incorporated into stations with 1.5mm or 2.5mm stainless steel faceplates, with a vertical pitch of 50mm** or 57mm** and horizontal pitch of 60mm. If pushbuttons are supplied loose, spacers are provided to accommodate the differing faceplate thickness.

Technical details

Weight 60grms

Moulded in high grade polycarbonate Environmental protection IP54 (frontal presentation)

anodized aluminium (black, green, yellow) US90-EN = 620mm², US91-EN = 707mm² Pressel plate material Pressel plate area

Button force 5N

LED Current 20mA (typically)

LED Colours Single & dual - red, green, blue, white, yellow. Bi-colour - white/blue & white/red

LED Voltage 12/24V a.c./d.c. ±15%

Various connector options available (AMP-HE14 & MTA100, JST-XH, Camden Screw)

Designed to meet the requirements of BS CECC 96400:Pushbutton switches where relevant, EN81-1/2, EN81-70 and EN81-71 (Category 1).

30V d.c. at 50mA max. resistive loads - min. no. of operations: 5 x 106 24V d.c. at 20mA max. resistive loads - min. no. of operations: 5 x 106 12V d.c. at 5mA max. resistive loads - min. no. of operations: 5 x 106 2.5 watts (max.)

1 N/O* Contact arrangements

*For other contact arrangements or higher ratings, use either a Compact 2 Pushbutton or a Compact 2 Micro Relay Board (e.g. Alarm, Door Open, Door Closed, etc.). Please refer to PB111/PB137 for Compact 2 and PB140 for the Relay Board.

A large range of legends in Helvetica Medium characters and symbols are available, please refer to our website.

<u>Tactile</u> legends are formed during the moulding of the pressel body and are in opal 15mm high characters.

PushGate^{™*} technology is a patented design of **DURASWITCH**

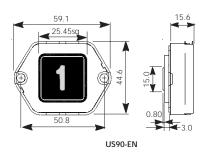


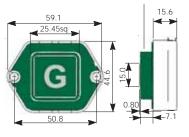
Patent Nos: US PAT nos. 5,523,730; 5,666,096; 5,867,082; 5,990,772; 6,130,593; 6,069,545; 6,023,213; 6,069,552; 6,137,387; 6,262,646 Chinese PAT no. ZL96110385.X Taiwanese PAT No. NI090979 Australian PAT No. 727962 UK Patent Pending.

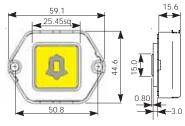
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Canada	D dupar controls	t 519 624 2510	f 519 624 2524	info@dupar.com	www.dupar.com
UK	□ LiftStore	t 020 8538 1770	f 020 8538 1771	info@liftstore.com	www.liftstore.com
USA	D the fixture company	t 847 214 3100	f 847 214 2771	info@thefixtureco.com	www.thefixtureco.com

^{**}Dependant on connector orientation.

Surrounds available in Chrome or Green (standard)

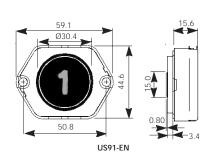


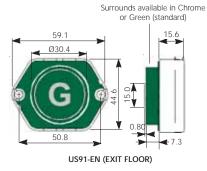


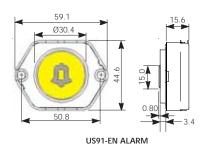


US90-EN (EXIT FLOOR)

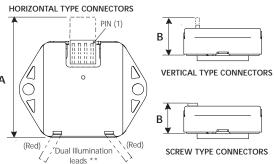
US90-EN ALARM

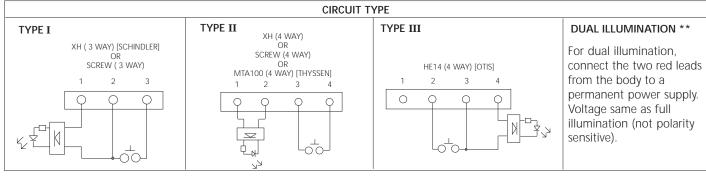






All dimensions in mm





CONNECTOR OPTIONS (ON BUTTON PCB)				CIRCUIT DIMENSIONS		SIONS	RECOMMENDED FEMALE CONNECTOR*			
TYPE	ORIENTATION Landing buttons have horizontal connectors	NO. OF PINS	VENDOR PART Nº	DEWHURST CODE	VENDOR	TYPE				
	All other buttons have vertical connectors						Α	В	VENDOR PART N°	VENDOR
	HORIZONTAL	3 WAY	S 3B-XH-A	JST3	JST	I	53	-	NR(0*NR-E6S) or	JST
XH	(90°)	4 WAY	S 4B-XH-A	JST4		II	53	-	HR(0*HR-65) or	
	VERTICAL	3 WAY	B 3B-XH-A	JST3		I	-	23	NRB(0*NR-D6S)	
	(O°)	4 WAY	B 4B-XH-A	JST4		II	-	23	* Insert 3 for 3-way or 4 for 4-way	
HE14	HORIZONTAL	4 WAY	0281695-4	AMP4		Ш	55	_	0281786-4(180°) or	
HE14	VERTICAL	4 VVAI	0281698-4	7 AWII 4	AMP	Ш	-	32	0281711-4(90°)	AMP
MTA100	HORIZONTAL	4 WAY 640457-4	640457-4 MTA ²	MTAA	7.0411	II	54	-	640442-4(END) or	Alvir
	VERTICAL	7 (//)				II	-	30	640622-4 (THROUGH)	
SCREW	HORIZONTAL 4 WAY CBT0305/4 SCR4 3 WAY CBT0305/3 SCR3	HORIZONITAL 4 WAY CBT0305/4	CBT0305/4	SCR4	SCR4 CAMDEN	II	_	- 18	N/A	N/A
		CAIVIDEN	I		"	IV/A	IV/A			

^{*}Other connector part numbers are available for different arrangements and cable sizes.

PART NUMBER ORDERING

Example

US91-15C2M - SS / SCR4-R-24L =

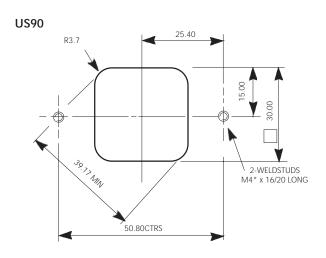
STYLE = Round, tactile and Braille **FINISH** = Stainless Steel finish

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PCB = SCR4 connector 24V LED's Red Single illumination

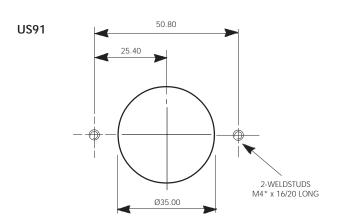
PRESSEL					
STYLE	FINISH				
C2M	-				
89 = Barrel, tactile	SS = Stainless Steel				
90 = Square, flush	MS = Mirrored Steel				
90-15 = Square, tactile & Braille	SB = Standard Brass				
91 = Round, tactile	MB = Mirrored Brass				
91-15 = Round tactile & Braille					

PCB						
CONNECTOR TYPE	LEGEND COLOUR	INDICATION				
SCR4 SCR3 JST4 JST3 AMP4 MTA4	R = Red G = Green B = Blue W = White Y = Yellow W/B = White/Blue W/R = White/Red	24L = 24V LED 12L = 12V LED 24D = 24V Dual 12D = 12V Dual 24I = 24V Bi-colour - (only avble screw)				

Cutouts and stud positions



2-WELDSTUDS M4 X 16 LONG FOR COMPACT 2 MICRO PUSHBUTTONS



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UK	□ LiftStore	t 020 8538 1770	f 020 8538 1771	info@liftstore.com	www.liftstore.com
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