



Pushbutton

Types Compact 2 Micro - US89, US90, US90-15, US91 and US91-15

Publication Number PB124/0508

Application

Dewhurst illuminated legend pushbuttons ensure a bright wide angle view in all lighting conditions and includes in the range tactile and Braille buttons 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.

Dewhurst supplies elongated versions of the US91 pushbutton which are designed for lift applications which require thicker faceplates of up to 14mm.

Operation

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)

Pressel plate brushed 304 stainless steel (standard)

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)

Standards and Codes

Designed to meet the requirements of BS CECC 96400:Pushbutton switches where relevant EN81-1/2.

Rating

30V d.c. at 50mA max. resistive loads - min. no. of operations : 5×10^6 24V d.c. at 20mA max. resistive loads - min. no. of operations : 5×10^6 12V d.c. at 5mA max. resistive loads - min. no. of operations : 5×10^6

Power 2.5 watts (max.)

Contact arrangements 1 N/O***

***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.

	Dewhurst plc t +44 (0)20 Contact your local sales office:		info@dewhurst.co.uk	www.dewhurst.co.uk	
Australia	D Australian lift components	t 02 9603 0200	f 02 9603 2700	info@alc.au.com	www.alc.au.com
	D] lift material	t 02 9310 4288	f 02 9698 4990	info@liftmaterial.com	www.liftmaterial.com
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	the fixture company	t 847 214 3100	f 847 214 2771	info@thefixtureco.com	www.thefixtureco.com

^{**}Dependant on connector orientation.

Marking

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

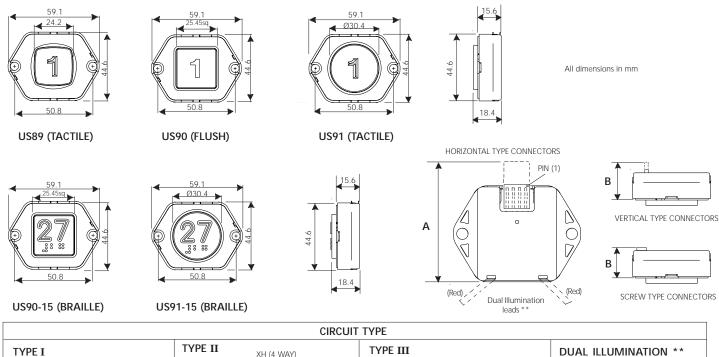
Tactile legends are formed during the moulding of the pressel body and are in opal 13mm high characters.

Flush legends are formed during the moulding of the pressel body and are in opal 13mm high characters.

The Braille style legends are 15mm high and protruding by 1mm characters, with pressel body moulded in opal.

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.



CIRCUIT TYPE								
TYPE I XH (3 WAY) [SCHINDLER] OR SCREW (3 WAY) 1 2 3	TYPE II XH (4 WAY) OR SCREW (4 WAY) OR MTA100 (4 WAY) [THYSSEN] 1 2 3 4	TYPE III HE14 (4 WAY) [OTIS] 1 2 3 4	For dual illumination, connect the two red leads from the body to a permanent power supply. Voltage same as full illumination (not polarity sensitive).					

CONNECTOR OPTIONS (ON BUTTON PCB)					CIRCUIT	DIMENSIONS		RECOMMENDED FEMALE CONNECTOR*			
TYPE	ORIENTATION Landing buttons have horizontal connectors	NO. OF PINS	VENDOR PART N°	DEWHURST CODE	VENDOR	TYPE					
	All other buttons have vertical connectors						Α	В	VENDOR PART Nº	VENDOR	
	HORIZONTAL	3 WAY	S 3B-XH-A	JST3	JST _	I	53	-	NR(0*NR-E6S) or		
ΧH	(90°)	4 WAY	S 4B-XH-A	JST4		II	53	-	HR(0*HR-65)	JST	
	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 VERTICAL	HORIZONTAL	4 WAY	0281695-4	AMP4	A N A D A		III	55	-	0281786-4(180°)	
	VERTICAL	4 VVAY	0281698-4		AMP	III	-	32	or 0281711-4(90º)	AMP	
MTA100 -	HORIZONTAL	4 WAY	640457-4	MTA4		II	54	-	640442-4(END)	AIVIP	
	VERTICAL	4 VVAI	640456-4	IVIIA4		II	-	30	or 640622-4 (THROUGH)		
SCREW	HORIZONTAL	4 WAY	CBT0305/4	SCR4	CAMDEN	II	_	18	N/A	N/A	
	TIONZONIAL		CBT0305/3	SCR3	CAIVIDEN	T T	_	10	IN/A	I IV/A	

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

PART NUMBER ORDERING

Example

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

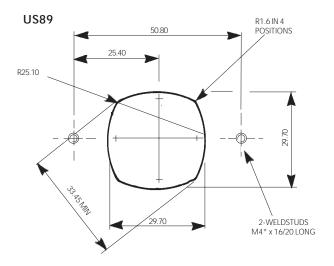
STYLE = Round, tactile and Braille **FINISH** = Stainless Steel finish

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

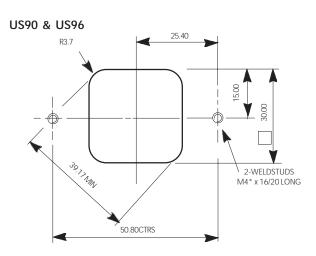
PRESSEL						
STYLE		FINISH				
C2M	-					
89 = Barrel, tactile		SS = Stainless Steel				
90 = Square, flush		MS = Mirrored Steel				
90-15 = Square, tactile & Braille		SB = Standard Brass				
91 = Round, tactile		MB = Mirrored Brass				
91-15 = Round, tactile & Braille						

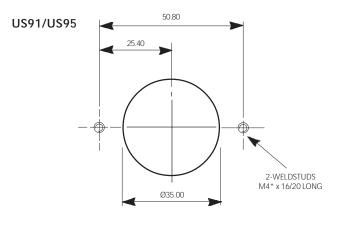
	PCB		
CONNECTOR TYPE	LEGEND COLO	UR	INDICATION
	-	-	
SCR4 SCR3 JST4 JST3 AMP4 MTA4	R = Red G = Green B = Blue W = white Y = Yellow W/B = White W/R = White	e/Blue	24L = 24V LED 12L = 12V LED 24D = 24V Dual 12D = 12V Dual 24I = 24V Bi-colour (only avble screw)

Cutouts and stud positions



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





	Dewhurst plc t +44 (0)20 Contact your local sales office:		(0)20 8572 5986	info@dewhurst.co.uk	www.dewhurst.co.uk
Australia	■ Australian lift components	t 02 9603 0200	f 02 9603 2700	info@alc.au.com	www.alc.au.com
	□ lift material	t 02 9310 4288	f 02 9698 4990	info@liftmaterial.com	www.liftmaterial.com
Canada	D dupar controls	t 519 624 2510	f 519 624 2524	info@dupar.com	www.dupar.com
UK	D 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