

# Pushbutton

## Types Compact 2 Micro US95-EN and US96-EN

Publication Number **PB164/0508**

### 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

Operation of the pressel activates a patented switch technology called PushGate™, 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.

\*\*Dependant on connector orientation.

### Technical details

Weight	60grms
Moulded in	high grade polycarbonate
Environmental protection	IP54 (frontal presentation)
Pressel plate material	anodized aluminium (black, green, yellow)
Pressel plate area	US90-EN = 620mm <sup>2</sup> , US91-EN = 707mm <sup>2</sup>
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 and EN81-70.

### Rating

30V d.c. at 50mA max. resistive loads - min. no. of operations : 5 x 10<sup>6</sup>

24V d.c. at 20mA max. resistive loads - min. no. of operations : 5 x 10<sup>6</sup>

12V d.c. at 5mA max. resistive loads - min. no. of operations : 5 x 10<sup>6</sup>

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 PB163 for Compact 2 and PB140 for the Relay Board.

### Marking

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

Tactile, Braille legends are formed during the moulding of the pressel body and are in opal 15mm high characters.

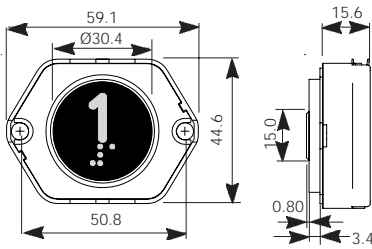
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<b>Australia</b>	 Australian lift components	t 02 9603 0200	f 02 9603 2700	info@alc.au.com	www.alc.au.com
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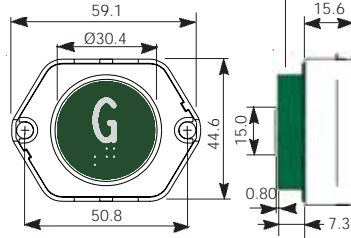
# PushGate™ technology is a patented design of **DURASWITCH**

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.

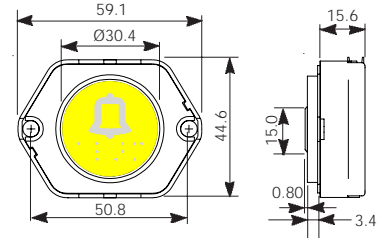
Surrounds available in Chrome  
or Green (standard)



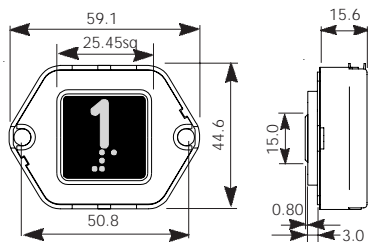
US95-EN C2 MICRO



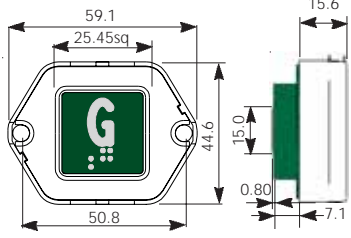
US95-EN C2 MICRO (EXIT FLOOR)



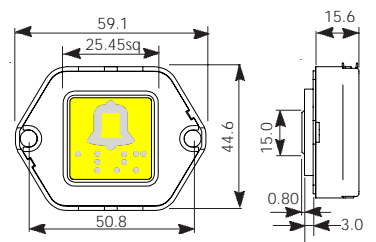
US95-EN C2 MICRO ALARM



US96-EN C2 MICRO

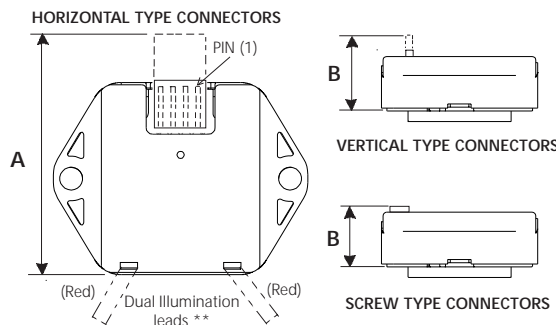


US96-EN C2 MICRO (EXIT FLOOR)



US96-EN C2 MICRO ALARM

All dimensions in mm



## CIRCUIT TYPE

TYPE I	TYPE II	TYPE III	DUAL ILLUMINATION **
XH ( 3 WAY) [SCHINDLER] OR SCREW ( 3 WAY)	XH ( 4 WAY) OR SCREW ( 4 WAY) OR MTA100 ( 4 WAY) [THYSSEN]	HE14 ( 4 WAY) [OTIS]	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 TYPE	DIMENSIONS		RECOMMENDED FEMALE CONNECTOR*	
TYPE	ORIENTATION	NO. OF PINS	VENDOR PART N°	DEWHURST CODE	VENDOR		A	B	VENDOR PART N°	VENDOR
XH	HORIZONTAL (90°)	3 WAY	S 3B-XH-A	JST3	JST	I	53	-	NR(0*NR-E6S) or HR(0*HR-65) or NRB(0*NR-D6S)  * Insert 3 for 3-way or 4 for 4-way	JST
		4 WAY	S 4B-XH-A	JST4		II	53	-		
	VERTICAL (0°)	3 WAY	B 3B-XH-A	JST3		I	-	23		
		4 WAY	B 4B-XH-A	JST4		II	-	23		
HE14	HORIZONTAL	4 WAY	0281695-4	AMP4	AMP	III	55	-	0281786-4(180°) or 0281711-4(90°) 640442-4(END) or 640622-4 (THROUGH)	AMP
	VERTICAL		0281698-4			III	-	32		
MTA100	HORIZONTAL	4 WAY	640457-4	MTA4		II	54	-		
	VERTICAL		640456-4			II	-	30		
SCREW	HORIZONTAL	4 WAY	CBT0305/4	SCR4	CAMDEN	II	-	N/A	N/A	
		3 WAY	CBT0305/3	SCR3		I	-			18

\*Other connector part numbers are available for different arrangements and cable sizes.

## PART NUMBER ORDERING

### Example

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

STYLE = Round, tactile and Braille

FINISH = Black Anodised finish

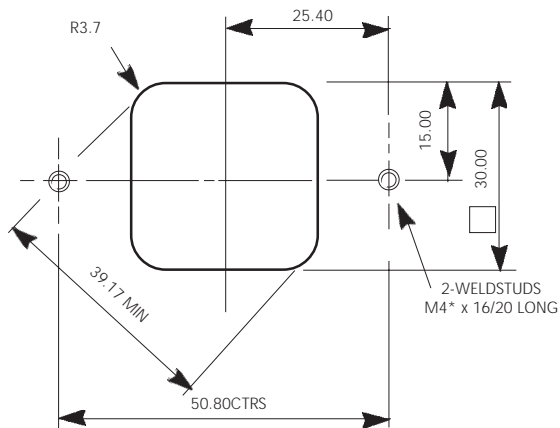
PCB = SCR4 connector 24V LED's Red Single Illumination

PRESSEL		
STYLE		FINISH
<b>C2M - EN</b>	-	
<b>95</b>	= Round, tactile & Braille	<b>BA</b> = Black Anodised
<b>96</b>	= Square, tactile & Braille	<b>GA</b> = Green Anodised
		<b>YA</b> = Yellow Anodised

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

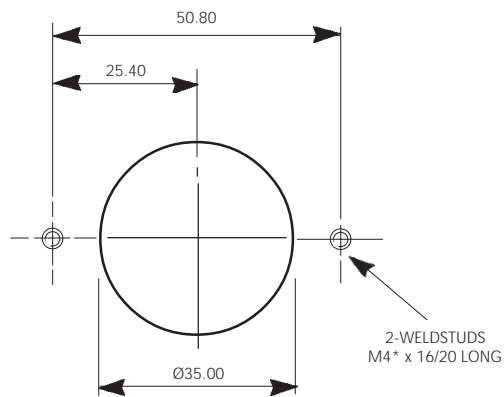
## Cutouts and stud positions

### US96



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

### US95



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