


# Foot Pedal Switches

	Foot Pedal Switches (Single Pedal)		Foot Pedal Switches (2 Pedals)	
Type				
Protective Shield	Die Cast Aluminium/Thermoplastic		Die Cast Aluminium	
Mechanical Life	1 x 10 <sup>6</sup> operations		1 x 10 <sup>6</sup> operations	
Pedal	Glass fibre reinforced thermoplastic, 2 Position with Safety Lever		Glass fibre reinforced thermoplastic	
Cable Entry	M20 x 1.5		M25 x 1.5	
Protection class	IP 65 as per EN 60529		IP 65 as per EN 60529	
Switch Contacts	1NO, 1NC as standard AC-15, 6A/400 VAC <b>ELF060KM11 (Additional 1NO/1NC Contact Block)</b>		2NC, 2NO slow action contacts AC-15, 6A/400 VAC	
Temperature	-25 to +80 °C		-25 to +80 °C	
Order Number	<b>Description</b>	<b>Order Number</b>	<b>Description</b>	<b>Order Number</b>
	(Die Cast Aluminium) (Thermoplastic)	ELF 060 PPLA11 ELF 060 PPLT11	2 Pedals 1N/O, 1N/C - each pedal	GFS 220S 20S
Dimension (HxWxD)	130 x 140 x 250 mm		140 x 284 x 264 mm	

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# Two Hand Stations/Area Scanner

Two Hand Stations			Scanners	
 <p>Order Number ELF 060P2MA</p>			 <p><b>Pharo</b></p>	
 <p>Order Number ELF 060C2MA</p>				
Housing	Cast Aluminium, Powder coated		Safety Category	Type 3
Standards	IEC/EN 60947-5-5, EN 574, EN 418		SIL (IEC 61508)	SIL 2
Protection class	IP 65		Light source	Laser diode wavelength 905 nm
Push Buttons	2 push buttons with 1NO, 1NC contacts each 4 x M20 holes - ELF060P2MA		Scanning angle	190 °
	2 push buttons with 1NO, 1NC contacts each ELF060C2MA		Response time	Configurable 60/120 (with 2 scans)
Emergency Stop	2 NC contacts		Power supply	24VDC (-30% + 20%)
Temperature	-25 to +70°C		Protection rating	IP 65
			Operating temperature	-10 to + 50 °C
			<b>Safety Zone (2 independant zones)</b>	
			Max range m (radius)	4 m
			Resolution	30, 40, 50, 70, 150 mm configurable
			Safety outputs	2 PNP self testing -500 mA at 24VDC
			<b>Warning Zone (2 independant zones)</b>	
			Max range m (radius)	20 m
			Resolution	Depending on the distance of the obstacle
			Signalling outputs	1 PNP- 200 mA at 24VDC
			<b>Measurement Zone</b>	
			Max range m (radius)	20 m
			Resolution	Depending on the distance of the obstacle
			Signalling output	1 PNP- 200 mA at 24VDC
			Data transmission output	RS 422 serial with dedicated protocol
		<b>Description</b>	<b>Order Number</b>	
		2 Hand Control Device	ELF060P2MA	
		2 Hand Control Unit	ELF060C2MA	
Dimension (HxWxD)	ELF060P2MA 163 x 491 x 154 mm	ELF060C2MA 110 x 480 x 82 mm		


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# Stack Light/Enable Switch

## Modular Stack Light

Type	
Housing	Thermoplastic
Power Supply	Max 250 V, 50-60 Hz
Protection class	IP 44
Lamp/LED	BA15D, Maximum 10W
Part Number	Order Number
Base, Connector, Cover	ELF050TBA (70 x Ø 70)
Extension Rod	ELF050TP100, ELF050TP200,
Green Module	ELF050TMV ( 65 x Ø 70)
Red Module	ELF050TMR ( 65 x Ø 70)
Amber Module	ELF050TMA ( 65 x Ø 70)
Yellow Module	ELF050TMG ( 65 x Ø 70)
Blue Module	ELF050TMBL ( 65 x Ø 70)
LED White	ELF 010 BA 15 DLB 24
Clear Module	ELF050TMI ( 65 x Ø 70)

## Enable Switch

		
Features/Specific Advantages	Modular Design, Vibration Signal	
Switching contacts	3 Change over contact	
Mechanical Life	1 x 10 <sup>6</sup> operations	
Housing Material	Plastic	
Cable Entry	Cable length 5 metres	
Ambient Temperature	-5 to +60°C	
Degree of Protection	IP 54	
Housing Dimensions	240 x 42 x 59 mm	
	Part Number	Order Number
	ZSM4200 Enabling Switch with gland	106104E
	ZSM2300 Enabling Switch, Vibration Motor, LED, 2 Push Buttons,	099714E
	ZSM 2101 Enabling Switch, Vibration Motor, LED, 2 Push Buttons, Key Switch, Red emergency Stop	103126E
Holders	Magnet Holder	102965E
	Screw Holder	102969E
Dimension (H x W x D) mm	180 x 79 x 79	