












D

CONTROL & SIGNALLING

D

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Platinum series Ø22 mm pushbuttons and selector switches

LPC series (chromed plastic) - mounting by threaded ring

- Elegant style ergonomic design (*combining aesthetics with industrial durability*)
- IP66, IP67 and IP69K degree of protection for use even in extreme temperatures -25°C...+70°C
- Material resistant to oils, solvents and hydrocarbons.
- Contact blocks and **LPX AU120** support (*see page D-4*)

Actuators are supplied without **LPX AU120** contact block support (*to be ordered separately*)

type	colour	symbol	description	action	price
Pushbutton actuators					
LPC B102	black	–	flush momentary pushbutton actuator	spring return	97.76
LPC B103	green	–	flush momentary pushbutton actuator	spring return	97.76
LPC B104	red	–	flush momentary pushbutton actuator	spring return	97.76
LPC B105	yellow	–	flush momentary pushbutton actuator	spring return	97.76
LPC B106	blue	–	flush momentary pushbutton actuator	spring return	97.76
LPC B202	black	–	projecting head pushbutton actuator	spring return	123.06
LPC B203	green	–	projecting head pushbutton actuator	spring return	123.06
LPC B204	red	–	projecting head pushbutton actuator	spring return	123.06
LPC B205	yellow	–	projecting head pushbutton actuator	spring return	123.06
LPC B206	blue	–	projecting head pushbutton actuator	spring return	123.06
Pushbutton actuators (with symbols on button)					
LPC B1104	red	O	flush momentary pushbutton actuator	spring return	126.51
LPC B1113	green	I	flush momentary pushbutton actuator	spring return	126.51
LPC B1134	red	STOP	flush momentary pushbutton actuator	spring return	126.51
LPC B1163	green	START	flush momentary pushbutton actuator	spring return	126.51
LPC B1142	black	←	flush momentary pushbutton actuator	spring return	126.51
LPC B1152	black	↑	flush momentary pushbutton actuator	spring return	126.51
LPC B1196	blue	RESET	flush momentary pushbutton actuator	spring return	126.51
LPC B2104	red	O	extended head pushbutton actuator	spring return	159.86
Alternate action pushbutton actuator (push on-push off)					
LPC Q102	black	–	flush alternate action p/button actuator	alternate	205.86
LPC Q103	green	–	flush alternate action p/button actuator	alternate	205.86
LPC Q104	red	–	flush alternate action p/button actuator	alternate	205.86
LPC Q105	yellow	–	flush alternate action p/button actuator	alternate	205.86
LPC Q106	blue	–	flush alternate action p/button actuator	alternate	205.86
LPC Q202	black	–	projecting head pushbutton actuator	alternate	258.76
LPC Q203	green	–	projecting head pushbutton actuator	alternate	258.76
LPC Q204	red	–	projecting head pushbutton actuator	alternate	258.76
LPC Q205	yellow	–	projecting head pushbutton actuator	alternate	258.76
LPC Q206	blue	–	projecting head pushbutton actuator	alternate	258.76
<i>Use only contact blocks LPX C10A (NO) and LPX C01 (NC) on above alternate action pushbuttons</i>					
Mushroom head pushbutton actuators					
LPC B6144	red	Ø40 mm	mushroom pushbutton actuator	spring return	221.96
LPC B6164	red	Ø60 mm	mushroom pushbutton actuator	spring return	304.76
LPC B6344	red	Ø40 mm	latching mushroom pushbutton actuator	twist release	305.91
Emergency stopping (ISO 13850 compliant)					
LPC B6634	red	Ø30 mm	latching mushroom pushbutton actuator	twist release	433.57
LPC B6644	red	Ø40 mm	latching mushroom pushbutton actuator	twist release	412.87
LPC B6744	red	Ø40 mm	latching mushroom pushbutton actuator	pull release	415.17
LPC B6844	red	Ø40 mm	latching mushroom pushbutton actuator	key release	824.58
Multi pushbutton actuators					
Double-touch pushbutton actuators					
LPC B7113	grn/red	–	double touch pushbutton actuator (<i>flush</i>)	spring return	189.76
LPC B7191	blk/blk	↓↑	double touch pushbutton actuator (<i>flush</i>)	spring return	244.96
LPC B71S02	grn/grn	+ –	double touch pushbutton actuator (<i>flush</i>)	spring return	307.06
LPC B7223	grn/red	I-O	double touch actuator (<i>ext. red button</i>)	spring return	257.61
LPC BL7223	grn/red	I-O	double touch + indicator (<i>ext. red button</i>)	spring return	363.42
Triple-touch pushbutton actuators (red extended stop button)					
LPC B7345	grn/grn	I-STOP-II	triple-touch pushbutton actuator	spring return	281.76
LPC B7355	grn/grn	↑-STOP-↓	triple-touch pushbutton actuator	spring return	281.76
LPC B7365	grn/grn	←-STOP-→	triple-touch pushbutton actuator	spring return	281.76
LPC B7375	grn/grn	↙-STOP-↘	triple-touch pushbutton actuator	spring return	236.91

		LPC series (chromed plastic) - mounting by threaded ring						
		type	colour	positions	description	spring return	price	
 <p>LPC S120</p>	Selector switch actuators							
	LPC S120	black	2 position	O - I	selector switch actuator	-	218.51	
	LPC S121	black	2 position	O - I	selector switch actuator	from Right	238.06	
	LPC S130	black	3 position	I - O - II	selector switch actuator	-	241.51	
	LPC S131	black	3 position	I - O - II	selector switch actuator	from L+R	264.51	
	LPC S132	black	3 position	I - O - II	selector switch actuator	from Left	264.51	
	LPC S133	black	3 position	I - O - II	selector switch actuator	from Right	264.51	
 <p>LPC S230</p>	Long lever selector switch actuators							
	LPC S220	black	2 position	O - I	lever selector actuator	O - I	227.71	
	LPC S221	black	2 position	O - I	lever selector actuator	from Right	247.26	
	LPC S230	black	3 position	I - O - II	lever selector actuator	I - O - II	251.86	
	LPC S231	black	3 position	I - O - II	lever selector actuator	from L+R	274.86	
	LPC S232	black	3 position	I - O - II	lever selector actuator	from Left	274.86	
	LPC S233	black	3 position	I - O - II	lever selector actuator	from Right	274.86	
 <p>LPC S320</p>	Key selector switch actuators							
		type	colour	positions	key remove	description	spring return	price
	LPC S320	black	2 pos (O-I)	Left	key switch actuator	-	493.37	
	LPC S321	black	2 pos (O-I)	L+R	key switch actuator	-	493.37	
	LPC S340	black	2 pos (O-I)	Left	key switch actuator	from Right	549.72	
	LPC S330	black	3 pos (I-O-II)	Centre	key switch actuator	-	547.42	
	LPC S331	black	3 pos (I-O-II)	L+C+R	key switch actuator	-	547.42	
	LPC S332	black	3 pos (I-O-II)	Left	key switch actuator	-	547.42	
	LPC S333	black	3 pos (I-O-II)	Right	key switch actuator	-	547.42	
	LPC S360	black	3 pos (I-O-II)	Centre	key switch actuator	from Right	565.82	
	LPC S370	black	3 pos (I-O-II)	Centre	key switch actuator	from L+R	565.82	
	<i>Versions with different key codes available on request.</i>							
Platinum series illuminated Ø22 mm control devices								
Pilot light heads - Ø22 mm								
LPL 3	green	illuminated	Ø22 mm pilot light head only	pilot light	77.06			
LPL 4	red	illuminated	Ø22 mm pilot light head only	pilot light	77.06			
LPL 5	yellow	illuminated	Ø22 mm pilot light head only	pilot light	77.06			
LPL 6	blue	illuminated	Ø22 mm pilot light head only	pilot light	77.06			
LPL 7	t/parent	illuminated	Ø22 mm pilot light head only	pilot light	77.06			
 <p>LPC BL103</p>	Flush illuminated pushbutton actuators							
	LPC BL103	green	illuminated	flush momentary pushbutton actuator	spring return	179.41		
	LPC BL104	red	illuminated	flush momentary pushbutton actuator	spring return	179.41		
	LPC BL105	yellow	illuminated	flush momentary pushbutton actuator	spring return	179.41		
	LPC BL106	blue	illuminated	flush momentary pushbutton actuator	spring return	179.41		
 <p>LPC QL103</p>	Alternate action pushbutton actuators (push-on/push-off)							
	LPC QL103	green	illuminated	flush alternate action p/button actuator	alternate	376.07		
	LPC QL104	red	illuminated	flush alternate action p/button actuator	alternate	376.07		
	LPC QL105	yellow	illuminated	flush alternate action p/button actuator	alternate	376.07		
	LPC QL106	blue	illuminated	flush alternate action p/button actuator	alternate	376.07		
 <p>LPC BL204</p>	Extended head illuminated pushbutton actuators							
	LPC BL203	green	illuminated	projecting head pushbutton actuator	spring return	225.41		
	LPC BL204	red	illuminated	projecting head pushbutton actuator	spring return	225.41		
	LPC BL205	yellow	illuminated	projecting head pushbutton actuator	spring return	225.41		
	LPC BL206	blue	illuminated	projecting head pushbutton actuator	spring return	225.41		
	LPC BL207	t/parent	illuminated	projecting head pushbutton actuator	spring return	225.41		
 <p>LPC QL203</p>	Alternate action pushbutton actuators (push-on/push-off)							
	LPC QL203	green	illuminated	projecting head alternate action	alternate	471.52		
	LPC QL204	red	illuminated	projecting head alternate action	alternate	471.52		
	LPC QL205	yellow	illuminated	projecting head alternate action	alternate	471.52		
	LPC QL206	blue	illuminated	projecting head alternate action	alternate	471.52		
	LPC QL207	t/parent	illuminated	projecting head alternate action	alternate	471.52		
 <p>LPC BL644</p>	Illuminated mushroom head pushbutton actuators							
	LPC BL6144	red	illuminated	Ø40 mm mushroom head actuator	spring return	403.67		
LPC BL6644	red	illuminated	Ø40 mm latching mushroom actuator	twist release	753.28			

Control & signalling

Platinum LPC series (chromed plastic) illuminated Ø22 mm control devices

type	colour	positions	description		action	price
Illuminated selector switch actuators						
LPC SL1203	green	2 position	illuminated selector switch actuator		O - I	304.76
LPC SL1204	red	2 position	illuminated selector switch actuator		O - I	304.76
LPC SL1205	yellow	2 position	illuminated selector switch actuator		O - I	304.76
LPC SL1206	blue	2 position	illuminated selector switch actuator		O - I	304.76
LPC SL1208	white	2 position	illuminated selector switch actuator		O - I	304.76
LPC SL1213	green	2 position	illuminated selector switch actuator		spring return from right	332.37
LPC SL1214	red	2 position	illuminated selector switch actuator			332.37
LPC SL1215	yellow	2 position	illuminated selector switch actuator			332.37
LPC SL1216	blue	2 position	illuminated selector switch actuator			332.37
LPC SL1218	white	2 position	illuminated selector switch actuator			332.37
LPC SL1303	green	3 position	illuminated selector switch actuator		I - O - II	338.12
LPC SL1304	red	3 position	illuminated selector switch actuator		I - O - II	338.12
LPC SL1305	yellow	3 position	illuminated selector switch actuator		I - O - II	338.12
LPC SL1306	blue	3 position	illuminated selector switch actuator		I - O - II	338.12
LPC SL1308	white	3 position	illuminated selector switch actuator		I - O - II	338.12
LPC SL1313	green	3 position	illuminated selector switch actuator		spring return from L+R	368.02
LPC SL1314	red	3 position	illuminated selector switch actuator			368.02
LPC SL1315	yellow	3 position	illuminated selector switch actuator			368.02
LPC SL1316	blue	3 position	illuminated selector switch actuator			368.02
LPC SL1318	white	3 position	illuminated selector switch actuator			368.02

Monoblock LED pilot lights

- Electrical life: >30.000 hours
- Compliant with standards: IEC/EN 60947-1, IEC/EN60947-5-1, UL508, CSA C22.2 no 14

type	colour	supply	IP rating	dB/10 cm	description		price
LPM LB1	orange	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LB3	green	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LB4	red	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LB5	yellow	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LB6	blue	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LB7	t/parent	24VAC/DC	66/67/69K	-	monoblock LED pilot light		96.61
LPM LE1	orange	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LE3	green	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LE4	red	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LE5	yellow	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LE6	blue	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LE7	t/parent	110VAC	66/67/69K	-	monoblock LED pilot light		224.26
LPM LM1	orange	230VAC	66/67/69K	-	monoblock LED pilot light		111.56
LPM LM3	green	230VAC	66/67/69K	-	monoblock LED pilot light		111.56
LPM LM4	red	230VAC	66/67/69K	-	monoblock LED pilot light		111.56
LPM LM5	yellow	230VAC	66/67/69K	-	monoblock LED pilot light		111.56
LPM LM6	blue	230VAC	66/67/69K	-	monoblock LED pilot light		111.56
LPM LM7	t/parent	230VAC	66/67/69K	-	monoblock LED pilot light		111.56

Monoblock Buzzers - continuous or pulse tone

LPC ZSA	black	9-15VAC/DC	IP40	90dB	monoblock panel mnt buzzer		250.71
LPC ZSB	black	18-30VAC/DC	IP40	90dB	monoblock panel mnt buzzer		250.71
LPC ZSM	black	185-265VAC/DC	IP40	90dB	monoblock panel mnt buzzer		250.71
LPC ZSAIP	black	9-15VAC/DC	66/67/69K	80dB	monoblock panel mnt buzzer		905.08
LPC ZSBIP	black	18-30VAC/DC	66/67/69K	80dB	monoblock panel mnt buzzer		905.08
LPC ZSMIP	black	185-265VAC/DC	66/67/69K	80dB	monoblock panel mnt buzzer		1 039.64

Monoblock potentiometers *UL-certified for use in demanding ambient conditions*

Monoblock potentiometers, typically used for regulating parameters of many devices (e.g. the speed of electric motors through static converters) mounting through standard Ø22 mm pushbutton mounting holes. Cermet technology, ensures stable, constant resistance values over time.

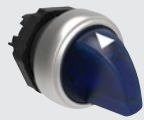
- Protection degree: IP66, IP67 and IP69K
- Insulation voltage U_i : 250 VAC
- Resistance tolerance: $\pm 10\%$
- Operating temperature: $-25...+70^\circ\text{C}$

- Monoblock body with 1-turn graduated scale 290° travel, mountable in any position.

LPC PA001	black	0...1k Ω	66/67/69K	monoblock panel mnt potentiometer		396.77
LPC PA005	black	0...5k Ω	66/67/69K	monoblock panel mnt potentiometer		396.77
LPC PA010	black	0...10k Ω	66/67/69K	monoblock panel mnt potentiometer		396.77



LPC SL1215



LPC SL1306



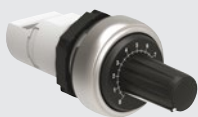
LPM LB3



LPM LB5

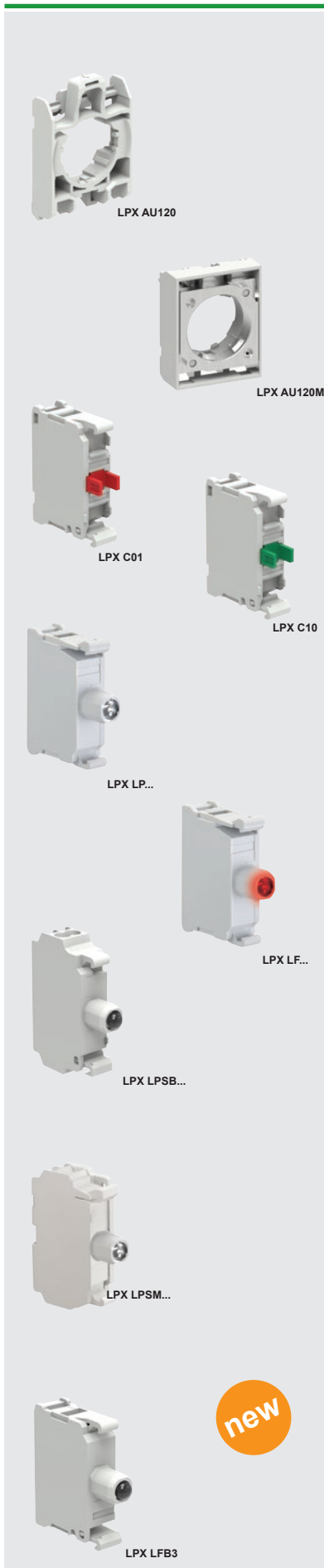


LPC ZS...



LPC PA001





Contact blocks and accessories

Contact block support

- Supports up to 9 contact blocks (3 rows of 3 contact blocks)

type	contact	description	price
LPX AU120	support	contact block support for LPC - chromed plastic actuators	47.16
LPX AU120M	support	contact block support for LPS / LPF - metallic actuators	60.96

Contact blocks require LPX AU120 for plastic and LPX AU120M for metal actuators

- Self cleaning, dual scrape/oscillating action contacts
- IEC rated insulation voltage: 690V - thermal current Ith: 10A
- Can be clipped onto the back of another contact block

LPX C10	1 x NO	standard	screw terminal contact block for control devices	86.26
LPX C01	1 x NC	standard	screw terminal contact block for control devices	86.26
LPX C10A	1 x NO	early make	screw terminal contact block for control devices	134.56
LPX C01D	1 x NC	late break	screw terminal contact block for control devices	134.56

- **Push-in technology** for rigid cables or with ferrules (*no tool required for insertion*). Guaranteed retaining force over time even in presence of vibration and/or impact.

LPX CS10	1 x NO	standard	push-in terminal contact block for control devices	111.56
LPX CS01	1 x NC	standard	push-in terminal contact block for control devices	111.56

LED indicating modules (protected) clips onto LPXAU120 and LPXAU120M supports

- Overvoltage protection
- Electrical life: 100.000 hours
- Total protection against overvoltage/stray currents in wiring, reduced flickering phenomenon
- Clips onto LPX AU120 and LPX AU120M supports

type	colour	supply	illumination	description	price
LED module (steady light)					
LPX LPB3	green	12-30 VAC/DC	LED	integrated steady lamp module	194.36
LPX LPB4	red	12-30 VAC/DC	LED	integrated steady lamp module	194.36
LPX LPB5	yellow	12-30 VAC/DC	LED	integrated steady lamp module	194.36
LPX LPB6	blue	12-30 VAC/DC	LED	integrated steady lamp module	194.36
LPX LPB8	white	12-30 VAC/DC	LED	integrated steady lamp module	194.36
LPX LPE*	*	85-140 VAC		integrated steady lamp module	277.16
LPX LPM3	green	185-265 VAC	LED	integrated steady lamp module	290.96
LPX LPM4	red	185-265 VAC	LED	integrated steady lamp module	290.96
LPX LPM5	yellow	185-265 VAC	LED	integrated steady lamp module	290.96
LPX LPM6	blue	185-265 VAC	LED	integrated steady lamp module	290.96
LPX LPM8	white	185-265 VAC	LED	integrated steady lamp module	290.96
LPX LFM3	green	185-265 VAC	LED	integrated flashing lamp module	667.03
LPX LFM4	red	185-265 VAC	LED	integrated flashing lamp module	667.03
LPX LFM5	yellow	185-265 VAC	LED	integrated flashing lamp module	667.03
LPX LFM6	blue	185-265 VAC	LED	integrated flashing lamp module	667.03
LPX LFM8	white	185-265 VAC	LED	integrated flashing lamp module	667.03

* Replace with: 3 (green) / 4 (red) / 5 (yellow) / 6 (blue) / 8 (white) - for colours

LED module (push-in technology)

- For rigid cables or with ferrules (*no tool required for insertion*)
- Guaranteed retaining force over time even in presence of vibration and/or impact

LPX LPSB3	green	12-30 VAC/DC	LED	integrated steady lamp module	221.96
LPX LPSB4	red	12-30 VAC/DC	LED	integrated steady lamp module	221.96
LPX LPSB5	yellow	12-30 VAC/DC	LED	integrated steady lamp module	221.96
LPX LPSB6	blue	12-30 VAC/DC	LED	integrated steady lamp module	221.96
LPX LPSB8	white	12-30 VAC/DC	LED	integrated steady lamp module	221.96
LPX LPSM3	green	185-265 VAC	LED	integrated steady lamp module	334.67
LPX LPSM4	red	185-265 VAC	LED	integrated steady lamp module	334.67
LPX LPSM5	yellow	185-265 VAC	LED	integrated steady lamp module	334.67
LPX LPSM6	blue	185-265 VAC	LED	integrated steady lamp module	334.67
LPX LPSM8	white	185-265 VAC	LED	integrated steady lamp module	334.67

LED module (flashing light)

LPX LFB3	green	12-30 VAC/DC	LED	integrated flashing lamp module	445.07
LPX LFB4	red	12-30 VAC/DC	LED	integrated flashing lamp module	445.07
LPX LFB5	yellow	12-30 VAC/DC	LED	integrated flashing lamp module	445.07
LPX LFB6	blue	12-30 VAC/DC	LED	integrated flashing lamp module	445.07
LPX LFB8	white	12-30 VAC/DC	LED	integrated flashing lamp module	445.07
LPX LFE*	*	85-140 VAC	LED	integrated flashing lamp module	637.12

* Replace with: 3 (green) / 4 (red) / 5 (yellow) / 6 (blue) / 8 (white) - for colours



Platinum LPS series (metal) - mounting securely by two screws

- Elegant style ergonomic design (*combining aesthetics with industrial durability*)
- IP66, IP67 and IP69K degree of protection for use even in extreme temperatures -25°C...+70°C
- Material resistant to oils, solvents and hydrocarbons
- Contact blocks and **LPX AU120M** support (*see page D-4*)

Supplied without **LPX AU120M** mounting adaptor/contact support (*to be ordered separately*)

type	colour	symbol	description	action	price
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Pushbutton actuators

LPS B102	black	–	flush momentary pushbutton actuator	spring return	127.66
LPS B103	green	–	flush momentary pushbutton actuator	spring return	127.66
LPS B104	red	–	flush momentary pushbutton actuator	spring return	127.66
LPS B105	yellow	–	flush momentary pushbutton actuator	spring return	127.66
LPS B106	blue	–	flush momentary pushbutton actuator	spring return	127.66
LPS B202	black	–	projecting head pushbutton actuator	spring return	159.86
LPS B203	green	–	projecting head pushbutton actuator	spring return	159.86
LPS B204	red	–	projecting head pushbutton actuator	spring return	159.86

Pushbutton actuators (with symbols on button)

LPS B1104	red	○	flush momentary pushbutton actuator	spring return	164.46
LPS B1113	green	⊥	flush momentary pushbutton actuator	spring return	164.46
LPS B1134	red	STOP	flush momentary pushbutton actuator	spring return	164.46
LPS B1163	green	START	flush momentary pushbutton actuator	spring return	164.46
LPS B1142	black	←	flush momentary pushbutton actuator	spring return	164.46
LPS B1152	black	↑	flush momentary pushbutton actuator	spring return	164.46
LPS B1196	blue	RESET	flush momentary pushbutton actuator	spring return	164.46
LPS B2104	red	○	extended head pushbutton actuator	spring return	207.01

Mushroom head pushbutton actuators

LPS B6144	red	Ø40 mm	mushroom pushbutton actuator	spring return	287.51
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Emergency stopping (ISO 13850 compliant)

LPS B6634	red	Ø30 mm	latching mushroom pushbutton actuator	twist release	563.52
LPS B6644	red	Ø40 mm	latching mushroom pushbutton actuator	twist release	537.07
LPS B6844	red	Ø40 mm	latching mushroom pushbutton actuator	key release	1 071.84

Multi pushbutton actuators

Double-touch pushbutton actuators

LPS B7113	grn/red	–	double touch pushbutton actuator (<i>flush</i>)	spring return	246.11
LPS B7191	blk/blk	↓↑	double touch pushbutton actuator (<i>flush</i>)	spring return	318.56
LPS B7223	grn/red	I-O	double touch actuator (<i>ext. red button</i>)	spring return	334.67

Triple-touch pushbutton actuators (red extended stop button)

LPS B7345	grn/grn	I-STOP-II	triple-touch pushbutton actuator	spring return	366.87
LPS B7355	grn/grn	↑-STOP-↓	triple-touch pushbutton actuator	spring return	366.87
LPS B7365	grn/grn	←-STOP-→	triple-touch pushbutton actuator	spring return	366.87
LPS B7375	grn/grn	↙-STOP-↘	triple-touch pushbutton actuator	spring return	366.87

Selector switch actuators

type	colour	positions	description	spring return	price
LPS S120	black	2 position	O - I selector switch actuator	–	284.06
LPS S121	black	2 position	O - I selector switch actuator	from Right	309.36
LPS S130	black	3 position	I - O - II selector switch actuator	–	313.96
LPS S131	black	3 position	I - O - II selector switch actuator	from L+R	342.72
LPS S132	black	3 position	I - O - II selector switch actuator	from Left	342.72
LPS S133	black	3 position	I - O - II selector switch actuator	from Right	342.72

Key selector switch actuators versions with different key codes available on request

type	colour	positions	key remove	description	spring return	price
LPS S320	black	2 pos (O-I)	Left	key switch actuator	–	640.58
LPS S321	black	2 pos (O-I)	L+R	key switch actuator	–	640.58
LPS S340	black	2 pos (O-I)	Left	key switch actuator	from Right	714.18
LPS S330	black	3 pos (I-O-II)	Centre	key switch actuator	–	710.73
LPS S331	black	3 pos (I-O-II)	L+C+R	key switch actuator	–	710.73
LPS S333	black	3 pos (I-O-II)	Right	key switch actuator	–	710.73
LPS S360	black	3 pos (I-O-II)	Centre	key switch actuator	from Right	734.88
LPS S370	black	3 pos (I-O-II)	Centre	key switch actuator	from L+R	734.88

new



LPS J400



LPS J210



LPL 3



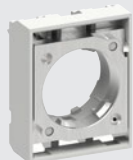
LPS BL103



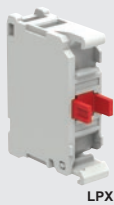
LPS BL204



LPS SL1205



LPX AU120M



LPX C01



LPX C10

Platinum LPS series (metal) - mounting securely by two screws

Joystick operators

Supplied complete with contact block support and contact blocks

type	colour	positions	contacts	description	operation	price
Without mechanical interlock						
LPS J200	black	2 position	2 NO	joystick control no interlock	spring ret.	1 075.29
LPS J201	black	2 position	2 NO	joystick control no interlock	latch	1 075.29
LPS J400	black	4 position	4 NO	joystick control no interlock	spring ret.	1 451.35
LPS J401	black	4 position	4 NO	joystick control no interlock	latch	1 451.35
With mechanical interlock - in centre position						
LPS J210	black	2 position	2 NO	joystick control interlocked	spring ret.	1 290.35
LPS J211	black	2 position	2 NO	joystick control interlocked	latch	1 290.35
LPS J410	black	4 position	4 NO	joystick control interlocked	spring ret.	1 741.16
LPS J411	black	4 position	4 NO	joystick control interlocked	latch	1 741.16

Illuminated Ø22 mm control devices

Supplied without LPX AU120M mounting adaptor/contact support (to be ordered separately)

Pilot light heads - Ø22 mm

LPS L3	green	illuminated		Ø22 mm pilot light head only	pilot light	135.71
LPS L4	red	illuminated		Ø22 mm pilot light head only	pilot light	135.71
LPS L5	yellow	illuminated		Ø22 mm pilot light head only	pilot light	135.71
LPS L6	blue	illuminated		Ø22 mm pilot light head only	pilot light	135.71
LPS L7	t/parent	illuminated		Ø22 mm pilot light head only	pilot light	135.71

Illuminated pushbutton actuators

LPS BL103	green	illuminated		flush head pushbutton actuator	spring return	232.31
LPS BL104	red	illuminated		flush head pushbutton actuator	spring return	232.31
LPS BL105	yellow	illuminated		flush head pushbutton actuator	spring return	232.31
LPS BL106	blue	illuminated		flush head pushbutton actuator	spring return	232.31
LPS BL203	green	illuminated		projecting head pushbutton actuator	spring return	292.11
LPS BL204	red	illuminated		projecting head pushbutton actuator	spring return	292.11
LPS BL205	yellow	illuminated		projecting head pushbutton actuator	spring return	292.11
LPS BL206	blue	illuminated		projecting head pushbutton actuator	spring return	292.11

Illuminated mushroom head pushbutton actuators Ø40 mm

LPS BL6644	red	illuminated		latching mushroom head actuator	twist release	978.69
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Illuminated selector switch actuators spring return

type	colour	positions	description	action	price
LPS SL1203	green	2 position	illuminated selector switch actuator	O - I	396.77
LPS SL1204	red	2 position	illuminated selector switch actuator	O - I	396.77
LPS SL1205	yellow	2 position	illuminated selector switch actuator	O - I	396.77
LPS SL1206	blue	2 position	illuminated selector switch actuator	O - I	396.77
LPS SL1303	green	3 position	illuminated selector switch actuator	I - O - II	439.32
LPS SL1304	red	3 position	illuminated selector switch actuator	I - O - II	439.32
LPS SL1305	yellow	3 position	illuminated selector switch actuator	I - O - II	439.32
LPS SL1306	blue	3 position	illuminated selector switch actuator	I - O - II	439.32

Contact blocks and accessories for LPS series

Contact block support for LPS series - metal

LPX AU120M	support		contact block support for LPS and LPF - metallic actuators		60.96
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Contact blocks (require LPX AU120M for metal actuators)

- Self cleaning, dual scrape/oscillating action contacts
- IEC rated insulation voltage: 690V - thermal current Ith: 10A
- Can be clipped onto the back of another contact block

LPX C10	1 x NO	standard	screw terminal contact block for control devices		86.26
LPX C01	1 x NC	standard	screw terminal contact block for control devices		86.26
LPX C10A	1 x NO	early make	screw terminal contact block for control devices		134.56
LPX C01D	1 x NC	late break	screw terminal contact block for control devices		134.56

- **Push-in technology for rigid cables or with ferrules (no tool required for insertion)**
guaranteed retaining force over time even in presence of vibration and/or impact

LPX CS10	1 x NO	standard	push-in terminal contact block for control devices		111.56
LPX CS01	1 x NC	standard	push-in terminal contact block for control devices		111.56

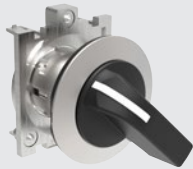
new



LPF B106



LPF B204



LPF S120



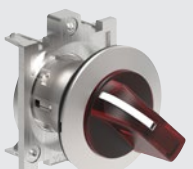
LPF S320



LPF L3



LPF BL104



LPF SL1204

Platinum LPF - Ø30 mm series (flat-metal) - mounting securely by two screws

- Actuator profile of only 4 mm
- Screw panel fixing by two screws for secure mounting and vandal proof installation
- Elegant style ergonomic design (combining aesthetics with industrial durability)
- IP66, IP67 and IP69K degree of protection for use even in extreme temperatures -25°C...+70°C
- Contact blocks, LED modules and **LPX AU120M** support

Actuators are supplied without **LPX AU120M** contact block support (to be ordered separately)

type	colour	style	description		action	price
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Pushbutton actuators Ø 30 mm

LPF B102	black	flush	momentary action pushbutton actuator		spring return	189.76
LPF B103	green	flush	momentary action pushbutton actuator		spring return	189.76
LPF B104	red	flush	momentary action pushbutton actuator		spring return	189.76
LPF B105	yellow	flush	momentary action pushbutton actuator		spring return	189.76
LPF B106	blue	flush	momentary action pushbutton actuator		spring return	189.76
LPF B204	red	projecting	momentary action pushbutton actuator		spring return	240.36

Selector switch actuators Ø 30 mm

						spring return	
LPF S120	black	2 position	O - I	selector switch actuator		-	425.52
LPF S121	black	2 position	O - I	selector switch actuator		from R	463.47
LPF S130	black	3 position	I - O - II	selector switch actuator		-	471.52
LPF S131	black	3 position	I - O - II	selector switch actuator		from L+R	512.92
LPF S133	black	3 position	I - O - II	selector switch actuator		from R	512.92

Key switch actuators Ø 30 mm

						key release	
LPF S320	black	2 position	(O-I) Left	key switch actuator		-	961.44
LPF S321	black	2 position	(O-I) L+R	key switch actuator		-	961.44
LPF S340	black	2 position	(O-I) Left	key switch actuator		from Right	1 070.69
LPF S330	black	3 position	(I-O-II) Centre	key switch actuator		-	1 067.24
LPF S331	black	3 position	(I-O-II) L+C+R	key switch actuator		-	1 067.24
LPF S370	black	3 position	(I-O-II) Centre	key switch actuator		from L+R	1 102.89

Illuminated control and signalling devices Ø 30 mm

Pilot light head

LPF L3	green	illuminated	pilot light head (with diffuser)		pilot light	203.56
LPF L4	red	illuminated	pilot light head (with diffuser)		pilot light	203.56
LPF L5	yellow	illuminated	pilot light head (with diffuser)		pilot light	203.56
LPF L6	blue	illuminated	pilot light head (with diffuser)		pilot light	203.56

Illuminated pushbuttons (with side visibility)

LPF BL103	green	illuminated	flush momentary action actuator		spring return	348.47
LPF BL104	red	illuminated	flush momentary action actuator		spring return	348.47
LPF BL105	yellow	illuminated	flush momentary action actuator		spring return	348.47
LPF BL106	blue	illuminated	flush momentary action actuator		spring return	348.47

Illuminated selector switch actuators

LPF SL1203	green	2 position	illuminated selector switch actuator		O - I	593.42
LPF SL1204	red	2 position	illuminated selector switch actuator		O - I	593.42
LPF SL1303	green	3 position	illuminated selector switch actuator		I - O - II	657.83

Other colours and configurations available on request.

Contact blocks and support for LPF series

LPX AU120M	support	contact block support for LPS and LPF - metallic actuators				60.96
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Contact blocks - require LPX AU120M for metal actuators

- Self cleaning, dual scrape/oscillating action contacts
- IEC rated insulation voltage: 690V - thermal current Ith: 10A

LPX C10	1 x NO	standard	screw terminal contact block for control devices		86.26
LPX C01	1 x NC	standard	screw terminal contact block for control devices		86.26
LPX C10A	1 x NO	early make	screw terminal contact block for control devices		134.56
LPX C01D	1 x NC	late break	screw terminal contact block for control devices		134.56
LPX CS10	1 x NO	standard	push-in terminal contact block for control devices		111.56
LPX CS01	1 x NC	standard	push-in terminal contact block for control devices		111.56

Accessories for above LPF actuators

LPFX AU100G	black	holder	legend holder for AU109 labels		12 mm (H)	27.38
LPX AU109	silver	engraveable	clip-in label for above holder		12 mm (H)	22.08
LPX AU109EN	silver	engraved	label (provide required engraving)		12 mm (H)	23.12



Accessories for Ø22 mm control devices

type	colour		description	price
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Legend plates and labels for Ø22 mm actuators

For LPC and LPS - Ø22 mm series control devices

LPX AU100	black	holder	legend holder for AU109 labels	12 mm (H)	18.52
LPX AU101	black	holder	legend holder for joystick controllers	12 mm (H)	75.91
LPX AU109	silver	engraveable	clip-in label for above holder	12 mm (H)	22.08
LPX AU109EN	silver	engraved	label (provide required engraving)	12 mm (H)	23.12
LPX AU105	black	holder	legend holder for AU108 labels	15mm (H)	23.93
LPX AU108	silver	engraveable	clip-in label for above holder	15 mm (H)	23.23
LPX AU108EN	silver	engraved	label (provide required engraving)	15 mm (H)	24.38

Emergency labels (to be mounted behind mushroom pushbuttons)

LPX AU113	yellow		"emergency stop" plastic label/disc for pushbuttons	Ø 90 mm	64.41
LPX AU115	yellow		"emergency stop" plastic label/disc for pushbuttons	Ø 60 mm	63.26
LPX AU110	yellow		"emergency stop" adhesive label for pushbuttons	35 x 65 mm	60.96

Shrouds (to prevent inadvertent operation of pushbutton)

LPX AU158	yellow		padlockable shroud for latching mushroom pushbutton		123.06
LPX AU159	yellow	half shroud	to prevent inadvertent operation of mushroom pushbutton		218.51

Control device accessories

LPX A130	black		Ø22 mm hole blanking plug (threaded)		24.74
LPX A140	black		action plug for using central position on actuators		13.69
LPX A150	black		spare rod (150 mm) for mechanical reset pushbuttons		46.01
LPX A170	silver	No. 455	spare replacement standard key set for key switches		159.86
LPX A170R*	silver		special key set for key switches with different keys		207.01

* Add: 421E, 458A, 520E, 3131A, 3433E (for different key requirement)

LPX AU00	black		spare plastic threaded nut for actuator fixing plastic actuators		11.97
LPX AU01	silver		replacement ring (steel) with teeth to avoid turning when mounted		52.91
LPX A162	silver		reduction ring to mount Ø22 mm LPC through Ø30 mm hole		136.86
LPX A162M	silver		reduction ring to mount Ø22 mm LPS through Ø30 mm hole		178.26
LM2T A200	black		socket spanner for actuator fixing ring tightening		117.31

Rubber boots for flush pushbutton actuators

LPX AU13*	*	boot	rubber protection boot for flush pushbutton actuators		47.16
LPX AU14*	*	boot	rubber protection boot for projecting pushbuttons		50.61
LPX AU157	t/parent	boot	protection boot for double/triple touch pushbuttons		142.61
LPX AU167	t/parent	boot	rubber protection boot for mushroom pushbuttons		322.02
LPX AU170	t/parent	boot	protection boot cover for 22 mm pushbuttons		197.81

* Replace with: 2 (black) / 3 (green) / 4 (red) / 5 (yellow) / 6 (blue) / 7 (t/parent) / 8 (white) - for colours

DIN rail mount adaptor for control devices

• To mount Ø22 mm control devices on DIN rail, fits into standard distribution boards (45 mm cut-out)

LPX DIN	grey		DIN rail mounting adaptor for Ø22 mm pushbuttons		54.06
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Mechanical reset pushbuttons (fine depth adjustment from face of button)

LPC R1002	black	-	mechanical reset button (adj. length)	0-150 mm	170.21
LPC R1004	red	-	mechanical reset button (adj. length)	0-150 mm	170.21
LPC R1006	blue	-	mechanical reset button (adj. length)	0-150 mm	170.21
LPC R1196	blue	(RESET)	mechanical reset button (adj. length)	0-150 mm	220.81

USB and RJ45 communication interfaces Ø22 mm

IP65 (with cap closed)

LPC D01	black	USB	panel mnt communication interface	A-A	709.58
LPC D03	black	USB	panel mnt communication interface	A-B	731.43
LPC D05	black	USB	panel mnt communication interface	B-A	731.43
LPC D06	black	RJ45	panel mnt communication interface	Ethernet	787.78

Spares for pushbuttons

LPX B10*	*		replacement cap for flush pushbutton actuators		16.11
LPX B20*	*		replacement cap for extended head pushbutton actuators		19.09
LPX BL10*	*		replacement lens for illuminated flush p/button actuators		47.25
LPX BL20*	*		replacement lens for ill. Extended head p/button actuators		60.54

* Replace with: 2 (black) / 3 (green) / 4 (red) / 5 (yellow) / 6 (blue) / 7 (t/parent) / 8 (white) - for colours



Polycarbonate pushbutton control stations

- High protection degree: IP66, IP67, IP69K
- New styling with incorporated anti-rotation facility for actuators
- M16 or M20/25 cable gland knock-outs on all sides and base
- Easy wiring with internal contact identification on cover and on base
- Contact blocks and lamp modules are base mounted with screw terminals facing forward

type	button colour	contact	cover colour	button symbol	description	dimensions(mm) (H) (W) (D)	price
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Complete pushbutton stations

1 way pushbutton stations

LPZ P1B8100	green	1 x NO	grey	I	flush pushbutton station		518.67
LPZ P1B8102	red	1 x NC	grey	O	extended pushbutton station	72 72 56	518.67
LPZ P1B5600	red	1 x NC	yellow	–	latch mushroom twist release		867.13
LP9S01R	red	1 x NC	grey		palm pushbutton station	94 94 90	615.27
LP9P02R	red	2 x NC	yellow		palm latching pull release station		869.43

2 way pushbutton stations

LPZ P2B8901	green red	1 x NO 1 x NC	grey grey	I O	flush pushbutton station extended pushbutton station	117 72 56	882.08
LPZ P2B802ZA*	green red	1 x NO 1 x NC	grey grey	I –	flush pushbutton latch mushroom twist release	151 72 56	822.28

*Taller housing (H) 151 mm to accommodate padlock shroud LPX AU158 (see page D-8)

3 way pushbutton stations

LPZ P3B8907	green red green	1 x NO 1 x NC 1 x NO	grey grey grey	↑ O ↓	flush pushbutton extended pushbutton flush pushbutton	151 72 56	1 210.99
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Empty pushbutton stations (without actuators and contact blocks)

type	holes	rows	cover	description	(H) (W) (D)	price
LPZ P1A5	1 hole	1	yellow	empty polycarb pushbutton station	72 72 56	112.71
LPZ P1A5P	1 hole	1	yellow	empty p/button station with shroud	73 72 56	487.62
LPZ P1A8	1 hole	1	grey	empty polycarb pushbutton station	72 72 56	115.01
LPZ P2A8	2 hole	1	grey	empty polycarb pushbutton station	117 72 56	139.16
LPZ P3A8	3 hole	1	grey	empty polycarb pushbutton station	151 72 56	161.01
LPZ P4A8	4 hole	1	grey	empty polycarb pushbutton station	186 72 56	253.01
LPZ P5A8	5 hole	1	grey	empty polycarb pushbutton station	220 72 56	310.51
LPZ P6A8	6 hole	1	grey	empty polycarb pushbutton station	256 72 56	372.62
LPZ XP5	4-piece set yellow screw protection caps for pushbutton stations				4pcs	65.56
LPZ XP8	4-piece set grey screw protection caps for pushbutton stations				4pcs	65.56

Base mounting contact blocks and indicating modules for above stations

LPX CB10	green	1 x NO	base mount screw terminal contact block for above stations	102.36
LPX CB01	red	1 x NC	base mount screw terminal contact block for above stations	102.36
LPX LPBB*	*	12-30 VAC/DC	base mount LED integrated lamp module for above stations	203.56
LPX LPBM*	*	185-265 VAC	base mount LED integrated lamp module for above stations	305.91

* Replace with: 3 (green) / 4 (red) / 5 (yellow) / 6 (blue) / 8 (white) - for colours

Metallic control stations IP66, IP67

- Without actuators and contact blocks
- Enclosures made of aluminium alloy suitable for pushbuttons, selector switches and pilot lights
- Cable entry Ø21 mm (for M20 or PG13.5 cable glands)
- No cable entry for 8/12/16 way

LPZ M1A5	1 hole	1	yellow	industrial metal pushbutton station	80 80 73	594.57
LPZ M1A5P	1 hole	1	yellow	p/button station (with half shroud)	80 80 73	834.93
LPZ M1A8	1 hole	1	grey	industrial metal pushbutton station	80 80 73	594.57
LPZ M2A8	2 hole	1	grey	industrial metal pushbutton station	130 80 73	739.48
LPZ M3A8	3 hole	1	grey	industrial metal pushbutton station	170 80 73	883.23
LPZ M4A8	4 hole	1	grey	industrial metal pushbutton station	170 80 73	977.54
LPZ M5A8	5 hole	1	grey	industrial metal pushbutton station	230 80 73	1 288.05
LPZ M6A8	6 hole	1	grey	industrial metal pushbutton station	230 80 73	1 383.50
LPZ M8CA8	8 hole	2 x 4	grey	industrial metal pushbutton station	160 160 90	1 597.41
LPZ M12CA8	12 hole	3 x 4	grey	industrial metal pushbutton station	170 190 90	1 752.66
LPZ M16CA8	16 hole	4 x 4	grey	industrial metal pushbutton station	190 250 90	2 086.17



GX series - Rotary cam switches

type	poles	contact rating		description	action	price
		AC1 (A)	AC23A (kW at 400V)			
• 16A/20A switches (std. 48 x 48 mm), 32A/40A switches (std. 65 x 65 mm) front plate						
ON/OFF switches						
GX16 90U	1 pole	16 A	5.5 kW	on-off switch	(O-I)	309.36
GX16 91U	2 pole	16 A	5.5 kW	on-off switch	(O-I)	359.97
GX16 10U	3 pole	16 A	5.5 kW	on-off switch	(O-I)	428.97
GX16 92U	4 pole	16 A	5.5 kW	on-off switch	(O-I)	478.42
GX20 90U	1 pole	20 A	7.5 kW	on-off switch	(O-I)	370.32
GX20 91U	2 pole	20 A	7.5 kW	on-off switch	(O-I)	431.27
GX20 10U	3 pole	20 A	7.5 kW	on-off switch	(O-I)	514.07
GX20 92U	4 pole	20 A	7.5 kW	on-off switch	(O-I)	575.02
GX32 90U	1 pole	32 A	15 kW	on-off switch	(O-I)	584.22
GX32 91U	2 pole	32 A	15 kW	on-off switch	(O-I)	711.88
GX32 10U	3 pole	32 A	15 kW	on-off switch	(O-I)	888.98
GX32 92U	4 pole	32 A	15 kW	on-off switch	(O-I)	1 016.64
GX40 90U	1 pole	40 A	18.5 kW	on-off switch	(O-I)	786.63
GX40 91U	2 pole	40 A	18.5 kW	on-off switch	(O-I)	974.09
GX40 10U	3 pole	40 A	18.5 kW	on-off switch	(O-I)	1 233.99
GX40 92U	4 pole	40 A	18.5 kW	on-off switch	(O-I)	1 421.45
ON/OFF isolators with padlockable red/yellow operating handle						
GX16 10U25	3 pole	16 A	5.5 kW	main isolator	(O-I)	473.82
GX16 92U25	4 pole	16 A	5.5 kW	main isolator	(O-I)	560.07
GX32 10U25	3 pole	32 A	15 kW	main isolator	(O-I)	825.73
GX32 92U25	4 pole	32 A	15 kW	main isolator	(O-I)	1 109.79
Changeover switches with "OFF" position						
GX16 51U	1 pole	16 A	5.5 kW	changeover switch	(I-O-II)	359.97
GX16 52U	2 pole	16 A	5.5 kW	changeover switch	(I-O-II)	478.42
GX16 53U	3 pole	16 A	5.5 kW	changeover switch	(I-O-II)	599.17
GX16 75U	4 pole	16 A	5.5 kW	changeover switch	(I-O-II)	718.78
GX20 51U	1 pole	20 A	7.5 kW	changeover switch	(I-O-II)	431.27
GX20 52U	2 pole	20 A	7.5 kW	changeover switch	(I-O-II)	575.02
GX20 53U	3 pole	20 A	7.5 kW	changeover switch	(I-O-II)	718.78
GX20 75U	4 pole	20 A	7.5 kW	changeover switch	(I-O-II)	862.53
GX32 51U	1 pole	32 A	15 kW	changeover switch	(I-O-II)	711.88
GX32 52U	2 pole	32 A	15 kW	changeover switch	(I-O-II)	1 016.64
GX32 53U	3 pole	32 A	15 kW	changeover switch	(I-O-II)	1 321.40
GX32 75U	4 pole	32 A	15 kW	changeover switch	(I-O-II)	1 626.16
GX40 51U	1 pole	40 A	18.5 kW	changeover switch	(I-O-II)	974.09
GX40 52U	2 pole	40 A	18.5 kW	changeover switch	(I-O-II)	1 421.45
GX40 53U	3 pole	40 A	18.5 kW	changeover switch	(I-O-II)	1 868.81
GX40 75U	4 pole	40 A	18.5 kW	changeover switch	(I-O-II)	2 316.18
Changeover switches without "OFF" position						
GX16 54U	1 pole	16 A	5.5 kW	changeover switch	(I-II)	359.97
GX16 55U	2 pole	16 A	5.5 kW	changeover switch	(I-II)	478.42
GX16 56U	3 pole	16 A	5.5 kW	changeover switch	(I-II)	599.17
GX16 69U	4 pole	16 A	5.5 kW	changeover switch	(I-II)	718.78
GX20 54U	1 pole	20 A	7.5 kW	changeover switch	(I-II)	431.27
GX20 55U	2 pole	20 A	7.5 kW	changeover switch	(I-II)	575.02
GX20 56U	3 pole	20 A	7.5 kW	changeover switch	(I-II)	718.78
GX20 69U	4 pole	20 A	7.5 kW	changeover switch	(I-II)	862.53
GX32 54U	1 pole	32 A	15 kW	changeover switch	(I-II)	711.88
GX32 55U	2 pole	32 A	15 kW	changeover switch	(I-II)	1 016.64
GX32 56U	3 pole	32 A	15 kW	changeover switch	(I-II)	1 321.40
GX32 69U	4 pole	32 A	15 kW	changeover switch	(I-II)	1 626.16
Voltmeter selector switches						
GX16 67U	–	16 A		voltmeter selector switch	ph-ph + off	394.47
GX16 66U	–	16 A		voltmeter selector switch	ph-ph/ph-n + off	502.57
Ammeter selector switches						
GX16 97U	–	16 A		ammeter selector switch	direct reading	1 095.99
GX16 98U	–	16 A		ammeter selector switch	for 3 CT's	533.62
Accessories for GX series cam switches						
GXM5	48 x 60 mm			front plate with legend for GX switches	16/20A	72.46
GXM6	65 x 80 mm			front plate with legend for GX switches	32/40A	94.31



227603



227622



227636



WE40

PR ONE series - Rotary cam switches

- 45° switching angle
- Forced opened contacts
- IP40 front protection, IP20 rear terminal (*finger protection*)
- Fulfils load break requirements up to 690V
- Operating temperature limits: -20°C...70°C
- Front bezel: 48 mm □ - engraved aluminium plate with black handle
- Standards: IEC EN 60947-1, 60947-3, UL508, UL-CSA

type	contact rating AC-21 (AC-23 at 400V)		poles	description	action	price
ON-OFF switches						
227600	16 A	7.5 kW	1 pole	on-off rotary cam switch	(O-I)	345.02
227601	16 A	7.5 kW	2 pole	on-off rotary cam switch	(O-I)	405.97
227602	16 A	7.5 kW	3 pole	on-off rotary cam switch	(O-I)	463.47
227603	25 A	11 kW	1 pole	on-off rotary cam switch	(O-I)	474.97
227604	25 A	11 kW	2 pole	on-off rotary cam switch	(O-I)	565.82
227605	25 A	11 kW	3 pole	on-off rotary cam switch	(O-I)	680.83
227606	32 A	11 kW	1 pole	on-off rotary cam switch	(O-I)	548.57
227608	32 A	11 kW	3 pole	on-off rotary cam switch	(O-I)	854.48
Change-over switches (with "OFF" position)						
227609	16 A	7.5 kW	1 pole	changeover rotary cam switch	(I-O-II)	405.97
227610	16 A	7.5 kW	2 pole	changeover rotary cam switch	(I-O-II)	518.67
227611	16 A	7.5 kW	3 pole	changeover rotary cam switch	(I-O-II)	656.68
227612	25 A	11 kW	1 pole	changeover rotary cam switch	(I-O-II)	565.82
227613	25 A	11 kW	2 pole	changeover rotary cam switch	(I-O-II)	755.58
227614	25 A	11 kW	3 pole	changeover rotary cam switch	(I-O-II)	943.03
227615	32 A	11 kW	1 pole	changeover rotary cam switch	(I-O-II)	678.53
227616	32 A	11 kW	2 pole	changeover rotary cam switch	(I-O-II)	970.64
227617	32 A	11 kW	3 pole	changeover rotary cam switch	(I-O-II)	1 288.05
2 to 5 way switches with (with "OFF" position)						
2-way switches with OFF						
227618	16 A	7.5 kW	1 pole	2-contact rotary cam switch	(O-I-II)	405.97
227619	16 A	7.5 kW	2 pole	4-contact rotary cam switch	(O-I-II)	518.67
227620	16 A	7.5 kW	3 pole	6-contact rotary cam switch	(O-I-II)	656.68
227624	25 A	11 kW	1 pole	2-contact rotary cam switch	(O-I-II)	565.82
227625	25 A	11 kW	2 pole	4-contact rotary cam switch	(O-I-II)	755.58
227626	25 A	11 kW	3 pole	6-contact rotary cam switch	(O-I-II)	943.03
227630	32 A	11 kW	1 pole	2-contact rotary cam switch	(O-I-II)	678.53
227631	32 A	11 kW	2 pole	4-contact rotary cam switch	(O-I-II)	970.64
227632	32 A	11 kW	3 pole	6-contact rotary cam switch	(O-I-II)	1 288.05
3-way switches with OFF						
227621	16 A	7.5 kW	1 pole	3-contact rotary cam switch	O-I-2-3	463.47
227627	25 A	11 kW	1 pole	3-contact rotary cam switch	O-I-2-3	678.53
4-way switches with OFF						
227622	16 A	7.5 kW	1 pole	4-contact rotary cam switch	O-I-2-3-4	518.67
5-way switches with OFF						
227623	16 A	7.5 kW	1 pole	5-contact rotary cam switch	O-I-2-3-4-5	621.02
Binary code switches (Ideal for VSD panels up to 11 preset positions) (set point)						
N62338A	-	-	4 pole	binary cam switch	(0-3)	681.98
N13484A	-	-	4 pole	binary cam switch	(0-5)	744.08
NR56EQ10A	-	-	4 pole	binary cam switch	(0-7)	742.93
NR51UQ10A	-	-	4 pole	binary cam switch	(0-11)	848.73
Instrument switches						
Voltmeter switch, with neutral						
227636	16 A	7.5 kW	1 pole	voltmeter selector switch (ph-ph/ph-N+off)		656.68
Ammeter switch, 3 CTs with common point						
227637	16 A	7.5 kW	1 pole	ammeter selector switch (for 3 CTs)		656.68
Accessories for above cam switches						
WE40	□ 48 mm		aluminium	engraversable blank legend plate insert		27.38
Q048	□ 48 mm		aluminium	engraversable duty label for legend		86.26
IF9	-		aluminium	insert for above duty label		47.16

new



EE2GFD1



EE3CFD1



EE3RPD1



EE2RMD1



EE2RMH1



EE1CSK1



EE3CKK1



LPX AU100

Ø22 mm one piece control devices - actuator with in-built contact arrangement

- Isolated terminals for NO+NC application
- Contact rating: 6A - 240 VAC
- Protection: IP65 (terminals IP20)
- Mechanical life: 1 million operations

Entegral series - Ø22 mm control and signalling devices

Type	colour	contact		description	action	price
Pushbutton switches IP65 <i>Lens: Ø30 x 10 - Body: L 47 mm</i>						
EE1GFD1	green	1 NO		flush momentary pushbutton	spring return	62.11
EE2RFD1	red	1 NC		flush momentary pushbutton	spring return	62.11
EE3GFD1	green	1NO + 1NC		flush momentary pushbutton	spring return	90.86
EE3RFD1	red	1NO + 1NC		flush momentary pushbutton	spring return	90.86
EE3CFD1	black	1NO + 1NC		flush momentary pushbutton	spring return	90.86
EE3BFD1	blue	1NO + 1NC		flush momentary pushbutton	spring return	90.86
EE3YFD1	yellow	1NO + 1NC		flush momentary pushbutton	spring return	90.86
EE3GPD1	green	1NO + 1NC		projecting head pushbutton	spring return	90.86
EE3RPD1	red	1NO + 1NC		projecting head pushbutton	spring return	90.86
EE3CPD1	black	1NO + 1NC		projecting head pushbutton	spring return	90.86
EE3BPD1	blue	1NO + 1NC		projecting head pushbutton	spring return	90.86
EE3YPD1	yellow	1NO + 1NC		projecting head pushbutton	spring return	90.86
Mushroom head pushbutton switches <i>Lens: Ø40 x 20 - Body: L 49 mm</i>						
EE2RMD1	red	1 NC		mushroom head pushbutton	spring return	77.06
EE2RMH1	red	1 NC	latching	mushroom head pushbutton	twist release	90.86
EE3RMH1	red	1NO + 1NC	latching	mushroom head pushbutton	twist release	124.21
Selector switches IP65 <i>Lens: Ø30 x 22 - Body: L 49 mm</i>						
2 position selector switches						spring return
EE1CSK1	black	1NO	O - I	30°	2 pos. selector switch	-
EE1CSI1	black	1NO	O - I	30°	2 pos. selector switch	from R
EE3CSK1	black	1NO + 1NC	O - I	30°	2 pos. selector switch	-
EE3CSI1	black	1NO + 1NC	O - I	30°	2 pos. selector switch	from R
3 position selector switches						
EE4CSL1	black	2 NO	I - O - II	30°	3 position selector switch	-
EE4CSJ1	black	2 NO	I - O - II	30°	3 position selector switch	from L + R
EE4CSN1	black	2 NO	I - O - II	-	3 position selector switch	from R
Key operated selector switches <i>Lens: Ø30 x 51 - Body: L 49 mm</i>						
2 position key switches						
EE3CKK1	black	1NO + 1NC	O - I	30°	key selector switch	-
EE3CKI1	black	1NO + 1NC	O - I	30°	key selector switch	from right
3 position key switches						
EE4CKL1	black	2 NO	I - O - II	30°	3 pos. key selector switch	-
EE4CKJ1	black	2 NO	I - O - II	30°	3 pos. key selector switch	from L+R
EE4CKN1	black	2 NO	I - O - II	-	3 pos. key selector switch	from right
LED indicator lights - Ø22 mm IP65 <i>Lens: Ø29.5 x 10 - Body: L 41.5 mm</i>						
				24...240 VAC/DC		
<ul style="list-style-type: none"> • Universal/Multi-Voltage • Best in class illumination • SMD LED cluster technology • Protrudes only 10 mm outside panel • Power consumption less than 1W 						
EG0100LR224	red	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
EG0100LG225	green	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
EG0100LB226	blue	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
EG0100LY227	yellow	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
EG0100LA228	amber	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
EG0100LW229	white	24 - 240 VAC/DC			one-piece multi-voltage LED pilot light	167.91
Legend plates and labels for Ø22 mm actuators						
LPX AU100	black				legend holder for AU109 labels	12 mm (H) 18.52
LPX AU109	silver				engraveable clip-in label for above holder	12 mm (H) 22.08
LPX AU109EN	silver				engraved label (<i>provide required engraving</i>)	12 mm (H) 23.12



LED pilot lights (multi-chip)

- Super bright multi-chip LED pilot lights (with diffuser/legend insert)
- Shock resistant, low power consumption $\geq 20\text{mA}$
- Brightness: $\geq 100\text{cd/m}^2$
- Long life $\geq 30.000\text{ hrs}$

type	lens colour	voltage $\pm 20\%$	mounting hole \varnothing	description	price
Ø16 mm LED pilot lights (high brightness) Lens: Ø19 x 10 - Body: L 24 mm					
• IP65 (IP20 terminal protection)					
AD16-16DSR02	red	24 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSG02	green	24 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSY02	yellow	24 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSB02	blue	24 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSW02	white	24 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSR11	red	110 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSG11	green	110 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSY11	yellow	110 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSB11	blue	110 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSW11	white	110 VAC/DC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSR22	red	220 VAC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSG22	green	220 VAC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSY22	yellow	220 VAC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSB22	blue	220 VAC	Ø16 mm	panel mount LED pilot light	33.82
AD16-16DSW22	white	220 VAC	Ø16 mm	panel mount LED pilot light	33.82

Self-flashing LED pilot light and electronic buzzer Lens: Ø19 x 10 - Body: L 41.5 mm

AD16-16MR02	red	24 VAC/DC	Ø16 mm	self-flash LED p/light + buzzer	60.96
AD16-16MR22	red	220 VAC	Ø16 mm	self-flash LED p/light + buzzer	77.06

Ø22 mm LED pilot lights (high brightness) - 4 LEDs Lens: Ø29 x13 mm - Body: L 39 mm

• IP65 (IP20 terminal protection)					
AD22-22DSR01	red	12 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSG01	green	12 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSY01	yellow	12 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSB01	blue	12 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSW01	white	12 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSR02	red	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSG02	green	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSA02	amber	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSY02	yellow	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSB02	blue	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSW02	white	24 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSR11	red	110 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSG11	green	110 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSY11	yellow	110 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSB11	blue	110 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSW11	white	110 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSR22	red	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSG22	green	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSA22	amber	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSY22	yellow	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSB22	blue	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSW22	white	220 VAC/DC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSR38	red	380 VAC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSG38	green	380 VAC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSY38	yellow	380 VAC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSB38	blue	380 VAC	Ø22 mm	panel mount LED pilot light	39.11
AD22-22DSW38	white	380 VAC	Ø22 mm	panel mount LED pilot light	39.11

Ø22 mm LED pilot lights with anti-interference longer body: L 50 mm

• Longer body accommodates built-in anti-interference circuit (threshold value - below 40V)					
• Prevents unwanted illuminating in presence of slight voltage backfeed in certain applications					
AD22-22D/KR22	red	230 VAC	Ø22 mm	panel mount LED pilot light	48.31
AD22-22D/KG22	green	230 VAC	Ø22 mm	panel mount LED pilot light	48.31
AD22-22D/KA22	amber	230 VAC	Ø22 mm	panel mount LED pilot light	48.31
AD22-22D/KY22	yellow	230 VAC	Ø22 mm	panel mount LED pilot light	48.31
AD22-22D/KB22	blue	230 VAC	Ø22 mm	panel mount LED pilot light	48.31
AD22-22D/KW22	white	230 VAC	Ø22 mm	panel mount LED pilot light	48.31



AD22-22MR02



AD22-22MK02



RZ3A1A60S3



AD30-30DSG22



AD30-30MR02

Panel mount control / indicating devices Ø22/30 mm

type	colour	voltage ± 20%	mounting hole Ø	description	price
Ø22 mm dual colour LED pilot light IP65					
<ul style="list-style-type: none"> • Dual light - red or green LED indication on one pilot light (white lens) • Lens: Ø29 x 13 - Body: L 54 mm 					
AD22-22DRG02	red/green	24 VAC/DC	Ø22 mm	panel mount LED pilot light	118.46
AD22-22DRG11	red/green	110 VAC/DC	Ø22 mm	panel mount LED pilot light	118.46
AD22-22DRG22	red/green	220 VAC	Ø22 mm	panel mount LED pilot light	118.46
Self-flashing LED pilot light (intermittent flashing - 2 Hz)					
AD22-22SR02	red	24 VAC/DC	Ø22 mm	self-flashing LED pilot light	102.36
AD22-22SR22	red	220 VAC	Ø22 mm	self-flashing LED pilot light	102.36
Ø22 mm panel mount buzzer IP40					
<ul style="list-style-type: none"> • Continuous sound buzzer (80dB - 10cm) • Lens: Ø30 x 13 - Body: L 49 mm 					
AD22-22MK02	black	24 VAC/DC	Ø22 mm	panel mounting buzzer	93.16
AD22-22MK22	black	220 VAC	Ø22 mm	panel mounting buzzer	93.16
Combination buzzer / flashing LED pilot light					
• Intermittent sound and flashing pilot light					
AD22-22MR02	red	24 VAC/DC	Ø22 mm	self-flash LED p/light + buzzer	102.36
AD22-22MR22	red	220 VAC	Ø22 mm	self-flash LED p/light + buzzer	102.36
Ø22 mm panel mount electronic timer IP65					
<ul style="list-style-type: none"> • Function: On-Delay timer range: 0 - 60 seconds • Mounting: Mounts through standard Ø22.5 mm pushbutton hole • Supply voltage: 24 VDC • Switching current: 200 mA • Indication: Facia illuminates - green during timing / red - at time lapse • Operating temp: -5°C...+55°C 					
RZ3A1A60S3	0...60 sec	10...30 VDC	Ø22 mm	on-delay p/mount analog timer	437.02
Ø30 mm panel mount indicating devices IP65					
<ul style="list-style-type: none"> • Ø30 mm LED pilot lights (high brightness) • Lens: Ø36.2 x 15 - Body: L 40 mm 					
AD30-30DSR02	red	24 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSG02	green	24 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSY02	yellow	24 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSB02	blue	24 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSW02	white	24 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSR22	red	220 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSG22	green	220 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSY22	yellow	220 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSB22	blue	220 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSW22	white	220 VAC/DC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSR38	red	380 VAC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSG38	green	380 VAC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSY38	yellow	380 VAC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSB38	blue	380 VAC	Ø30 mm	panel mount LED pilot light	67.86
AD30-30DSW38	white	380 VAC	Ø30 mm	panel mount LED pilot light	67.86
Ø30 mm panel mount buzzer IP40					
Combination buzzer / flashing LED pilot light					
<ul style="list-style-type: none"> • Brightness: ≥ 100cd/m² • Long life ≥ 30.000 hrs • Lens: Ø36.2 x 15 - Body: L 40 mm • Continuous sound buzzer (80dB - 10cm) • Intermittent sound and flashing pilot light • Shock resistant, low power consumption ≥ 20mA • Super bright multi-chip LED pilot lights (with diffuser / legend insert) 					
AD30-30MR02	red	24 VAC/DC	Ø22 mm	self-flash LED pilot light + buzzer	118.46
AD30-30MR22	red	220 VAC/DC	Ø22 mm	self-flash LED pilot light + buzzer	118.46

Panel mount control / indicating devices Ø22 mm						
type	colour	voltage ± 20%	mounting hole Ø	description	price	
AD101 series - Ø22 mm panel meter indicators				<i>Lens: Ø30 x 15 - Body: L 36 mm</i>		
New AD101 - Ø22 mm panel meter indicators with crystal screen offer large digit indication with sharp, defined, easy to read digits. Combination panel indicator/meter, providing indication as Volts, Amps, Frequency or Temperature.						
Voltmeter indicator AC		20...500 VAC				
AD101-22VMR	red	20...500 VAC	Ø22 mm	voltmeter panel indicator	103.51	
AD101-22VMG	green	20...500 VAC	Ø22 mm	voltmeter panel indicator	103.51	
AD101-22VMY	yellow	20...500 VAC	Ø22 mm	voltmeter panel indicator	103.51	
AD101-22VMB	blue	20...500 VAC	Ø22 mm	voltmeter panel indicator	103.51	
AD101-22VMW	white	20...500 VAC	Ø22 mm	voltmeter panel indicator	103.51	
Ammeter indicator AC		0...100A (with mini current transformer)				
AD101-22AMR	red	0...100A	Ø22 mm	ammeter panel indicator	194.36	
AD101-22AMG	green	0...100A	Ø22 mm	ammeter panel indicator	194.36	
AD101-22AMY	yellow	0...100A	Ø22 mm	ammeter panel indicator	194.36	
AD101-22AMB	blue	0...100A	Ø22 mm	ammeter panel indicator	194.36	
AD101-22AMW	white	0...100A	Ø22 mm	ammeter panel indicator	194.36	
Frequency meter indicator		0...99Hz				
AD101-22HZR	red	0...99Hz	Ø22 mm	frequency panel indicator	103.51	
AD101-22HZG	green	0...99Hz	Ø22 mm	frequency panel indicator	103.51	
AD101-22HZY	yellow	0...99Hz	Ø22 mm	frequency panel indicator	103.51	
AD101-22HZB	blue	0...99Hz	Ø22 mm	frequency panel indicator	103.51	
AD101-22HZW	white	0...99Hz	Ø22 mm	frequency panel indicator	103.51	
Temperature indicator		-22...+199°C				
AD101-22TMR	red	-22...+199°C	Ø22 mm	temperature panel indicator	219.66	
AD101-22TMG	green	-22...+199°C	Ø22 mm	temperature panel indicator	219.66	
AD101-22TMY	yellow	-22...+199°C	Ø22 mm	temperature panel indicator	219.66	
AD101-22TMB	blue	-22...+199°C	Ø22 mm	temperature panel indicator	219.66	
AD101-22TMW	white	-22...+199°C	Ø22 mm	temperature panel indicator	219.66	
AD22 series - Ø22 mm panel mount indicators				<i>Lens: Ø30 x 15 - Body: L 31 mm</i>		
Combination panel indicator / panel meter, providing indication as Volts, Amps, Frequency						
Voltmeter indicator AC		20...500 VAC				
AD22-22VMR	red	20...500 VAC	Ø22 mm	voltmeter panel indicator	111.56	
AD22-22VMG	green	20...500 VAC	Ø22 mm	voltmeter panel indicator	111.56	
AD22-22VMY	yellow	20...500 VAC	Ø22 mm	voltmeter panel indicator	111.56	
AD22-22VMB	blue	20...500 VAC	Ø22 mm	voltmeter panel indicator	111.56	
AD22-22VMW	white	20...500 VAC	Ø22 mm	voltmeter panel indicator	111.56	
Voltmeter indicator DC		5...60 VDC				
AD22-22VBR	red	5...60 VDC	Ø22 mm	voltmeter panel indicator	128.81	
AD22-22VBG	green	5...60 VDC	Ø22 mm	voltmeter panel indicator	128.81	
AD22-22VBY	yellow	5...60 VDC	Ø22 mm	voltmeter panel indicator	128.81	
AD22-22VBB	blue	5...60 VDC	Ø22 mm	voltmeter panel indicator	128.81	
AD22-22VBW	white	5...60 VDC	Ø22 mm	voltmeter panel indicator	128.81	
Ammeter indicator AC		0...100A (with mini current transformer)				
AD22-22AMR	red	0...100A	Ø22 mm	ammeter panel indicator	211.61	
AD22-22AMG	green	0...100A	Ø22 mm	ammeter panel indicator	211.61	
AD22-22AMY	yellow	0...100A	Ø22 mm	ammeter panel indicator	211.61	
AD22-22AMB	blue	0...100A	Ø22 mm	ammeter panel indicator	211.61	
AD22-22AMW	white	0...100A	Ø22 mm	ammeter panel indicator	211.61	
Frequency meter indicator		0...99Hz				
AD22-22HZR	red	0...99Hz	Ø22 mm	frequency panel indicator	111.56	
AD22-22HZG	green	0...99Hz	Ø22 mm	frequency panel indicator	111.56	
AD22-22HZY	yellow	0...99Hz	Ø22 mm	frequency panel indicator	111.56	
AD22-22HZB	blue	0...99Hz	Ø22 mm	frequency panel indicator	111.56	
AD22-22HZW	white	0...99Hz	Ø22 mm	frequency panel indicator	111.56	
Combination AC Volt / Ammeter		20...500V / 0...100A (with mini current transformer)				
AD22-22VAMR	red	500V/100A	Ø22 mm	volt/ammeter panel indicator	287.51	
AD22-22VAMG	green	500V/100A	Ø22 mm	volt/ammeter panel indicator	287.51	
AD22-22VAMY	yellow	500V/100A	Ø22 mm	volt/ammeter panel indicator	287.51	
AD22-22VAMB	blue	500V/100A	Ø22 mm	volt/ammeter panel indicator	287.51	
AD22-22VAMW	white	500V/100A	Ø22 mm	volt/ammeter panel indicator	287.51	



Indicator lights (panel mounting)

• Super bright LED pilot lights

IP67
• Long life ≥ 50.000 hrs

type	lens colour	voltage ± 20%	mounting hole Ø	description	price
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HBD series - Metallic panel mount LED pilot lights IP67

Ø10 mm mounting hole		solder / push-on		Lens: Ø11.5 x 1.5 mm - Body: L 30 mm	
GQ10T-JN/02/R	red	24 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/02/G	green	24 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/02/Y	yellow	24 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/02/B	blue	24 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/02/W	white	24 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/22/R	red	220 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/22/G	green	220 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/22/Y	yellow	220 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/22/B	blue	220 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
GQ10T-JN/22/W	white	220 VAC/DC	Ø10 mm	panel mount LED pilot light	121.91
Ø12 mm mounting hole		solder / push-on		Lens: Ø13.5 x 1.5 mm - Body: L 33 mm	
GQ12T-JN/02/R	red	24 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/02/G	green	24 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/02/Y	yellow	24 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/02/B	blue	24 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/02/W	white	24 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/22/R	red	220 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/22/G	green	220 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/22/Y	yellow	220 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/22/B	blue	220 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
GQ12T-JN/22/W	white	220 VAC/DC	Ø12 mm	panel mount LED pilot light	133.41
Ø16 mm mounting hole		screw terminal		Lens: Ø18 x 2 mm - Body: L 34 mm	
GQ16T-LN/02/R	red	24 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/02/G	green	24 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/02/Y	yellow	24 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/02/B	blue	24 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/02/W	white	24 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/22/R	red	220 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/22/G	green	220 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/22/Y	yellow	220 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/22/B	blue	220 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
GQ16T-LN/22/W	white	220 VAC/DC	Ø16 mm	panel mount LED pilot light	154.11
Ø22 mm mounting hole		screw terminal		Lens: Ø25 x 2.5 mm - Body: L 32 mm	
GQ22T-LN/02/R	red	24 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/02/G	green	24 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/02/Y	yellow	24 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/02/B	blue	24 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/02/W	white	24 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/22/R	red	220 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/22/G	green	220 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/22/Y	yellow	220 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/22/B	blue	220 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81
GQ22T-LN/22/W	white	220 VAC/DC	Ø22 mm	panel mount LED pilot light	243.81

HBDS1 series - Vandal-proof 304 stainless steel pushbuttons IP67

Vandal proof stainless steel pushbuttons (mount through standard Ø22 mm hole)

• 5A 250 VAC

• Termination: solder/push-on 2.8 x 0.5 mm

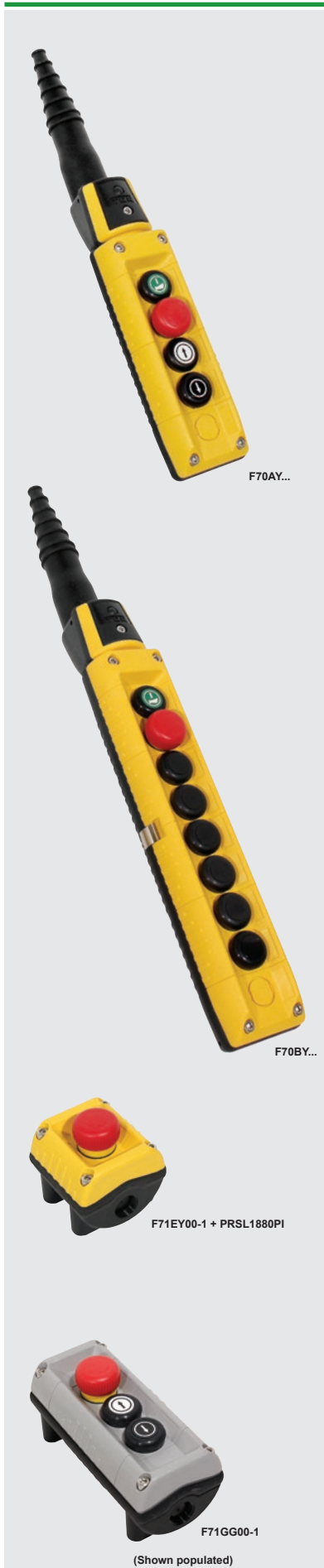
AGQ22F-11/JS	silver	momentary	Ø22 mm	1NO + 1NC	pushbutton only	403.67
AGQ22F-11/Z/JS	silver	alternate	Ø22 mm	1NO + 1NC	pushbutton only	453.12

Illuminated pushbuttons (ring type LED) (momentary action)

Illuminated versions feature LED ring type illumination with clear visibility from a distance.

AGQ22F-11/E/JS/02/R	red	24 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/02/G	green	24 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/02/Y	yellow	24 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/02/B	blue	24 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/02/W	white	24 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/22/R	red	220 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/22/G	green	220 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/22/Y	yellow	220 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/22/B	blue	220 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12
AGQ22F-11/E/JS/22/W	white	220 VAC/DC	Ø 22 mm	1NO + 1NC	illuminated p/button	453.12

HBD-T1 connector with 150 mm wire leads for connecting HBDS1 pushbuttons **77.06**



Mike series - Pendant control stations

Mike pendant stations are designed for heavy duty applications. Rubber pushbuttons guarantee total protection from dust and liquid penetration. Molded two colour button discs offer permanent, clear symbols and text. The ergonomic design, compact dimensions with antislip grooves reduce fatigue improving ease of use under any working conditions. Wiring is improved by separating the actuators (*mounted on top cover*) from the contact blocks (*fixed to the base*) with the cable inlet.

- Weather resistant materials with guaranteed protection against penetration of water and dust
- Additional actuator with up to 3 contacts can be mounted to the pendant station (*front or bottom base*)
- Operational ambient temperature limits: -40°C...+80°C
- Protection degree: IP66 / IP67 / IP69K
- Mechanical life: 10x10⁶ operations
- Insulation category: Class II
- Conformity to standards: IEC/EN 60204-1, 60947-1, 60947-5-1/5, 60529, EN418, CSA-C22.2 No 14-13, UL 508

type	no. of ways	description	reset/ alarm 2NO	Mushroom E/stop 1NC	1 speed button 1NO	2 speed button 1NO+1NO	price
Mike series single row pendant control station (IP66)							
F70AY120200-2	4 way	pendant station	1	1	2	-	2 204.62
F70AY120002-2	4 way	pendant station	1	1	-	2	2 574.94
F70AY000400-1	4 way	pendant station	-	-	4	-	2 024.07
F70AY000202-5	4 way	pendant station	-	-	2	2	2 395.53
F70AY000004-1	4 way	pendant station	-	-	-	4	2 738.24
F70EY120400-1	6 way	pendant station	1	1	4	-	2 643.94
F70EY120004-1	6 way	pendant station	1	1	-	4	3 384.56
F70EY120202-2	6 way	pendant station	1	1	2	2	3 014.25
F70BY120600-2	8 way	pendant station	1	1	6	-	3 103.95
F70BY120006-2	8 way	pendant station	1	1	-	6	4 214.89
F70CY121000-2	12 way	pendant station	1	1	10	-	4 333.34
F70DY121200-2	14 way	pendant station	1	1	12	-	4 853.16
Extra charges on request, standard elements can be replaced by others (see below)							
1/2 SPD		double depression 2 speed button and contact instead of 1 speed					+ 242.66
1/2 MSRM		double depression 2 speed button and contact instead of mushroom + reset					+ 103.50
1/1 MSRM		single depression 1 speed button and contact instead of mushroom + reset					- 345.01

Accessories for Mike pendants stations (above)				<i>(W) 84.5 x (D) 59.5 x (H) mm</i>		price
F70AY00-1	4 way	black/yellow	empty pendant housing only		427	928.08
F70EY00-1	6 way	black/yellow	empty pendant housing only		487	1 177.64
F70BY00-1	8 way	black/yellow	empty pendant housing only		547	972.94
F70CY00-1	12 way	black/yellow	empty pendant housing only		667	1 290.35
F70DY00-1	14 way	black/yellow	empty pendant housing only		727	1 830.86

Also available in all black colour on request.

Victor series - Wall mounted control stations (empty housings)

Victor has been designed to facilitate wiring and maintenance. Contact blocks are installed in the base together with the cable inlet and are separated from the actuators installed on the cover, reducing time, cost of installation and maintenance down time.



- Protection degree: IP66/IP67/IP69K
- Operational ambient temp: -40°C...+80°C
- Insulation category: Class II
- Cable entry: Cable clamp M20 x 1.5

type	holes	colour (top cover)	description	<i>(W) 72.7 x (D) 61.9 x (H) mm</i>	price
F71EY00-1	1 hole	yellow	empty surface mnt control station	73	508.32
F71EG00-1	1 hole	grey	empty surface mnt control station	73	440.47
F71FG00-1	2 hole	grey	empty surface mnt control station	122	599.17
F71GG00-1	3 hole	grey	empty surface mnt control station	152	646.33
F71HG00-1	4 hole	grey	empty surface mnt control station	182	631.37
F71IG00-1	6 hole	grey	empty surface mnt control station	242	787.78
F71JG00-1	8 hole	grey	empty surface mnt control station	302	991.34

Actuators - pushbuttons, selector switches on (page D-18) contact blocks (below)

Contact blocks for pendant and control stations (screw termination)

• Rated operational current 3A (AC15) / voltage 250V				• Thermal current: 10A	
• NC contact blocks are of positive operating type					
PRSL1800PI	1 NO	contact block		for above control stations	150.66
PRSL1801PI	1 NC	contact block		for above control stations	150.66
PRSL1820PI	LED	24/48 VAC/DC		LED indicating lamp element	1 193.74
PRSL1821PI	LED	110/230 VAC		LED indicating lamp element	1 193.74

	type	colour return	positions remove	description	spring return	key remove	price
	PRSL1811PI	black	-	pushbutton actuator (no disc)	1 speed	-	174.81
	PRSL1810PI	black	-	pushbutton actuator (no disc)	2 speed	-	225.41
	PRSL1880PI	red	-	latch mushroom actuator	twist rel	-	460.02
	PRSL1890PI	red	-	latch mushroom actuator	key rel	-	899.33
	PRSL1885ROC	red	-	impulse mushroom actuator	-	-	492.22
	PRSL1840PI	red	-	pilot light head only	-	-	330.07
	PRSL1841PI	green	-	pilot light head only	-	-	330.07
	PRSL1842PI	yellow	-	pilot light head only	-	-	330.07
	PRSL1846PI	blue	-	pilot light head only	-	-	330.07
	PRSL1890PI	blk/wht	2 (0-1)	selector switch actuator	-	-	724.53
	PRSL1862BIC	blk/wht	2 (1-2)	selector switch actuator	-	-	724.53
	PRSL1858BIC	blk/wht	3 (1-0-2)	selector switch actuator	-	-	724.53
	PRSL1868PI	-	2 (0-1)	key switch actuator	-	0 pos	799.28
	PRSL1870PI	-	3 (1-0-2)	key switch actuator	-	0 pos	799.28
Accessories for control stations							
	PRSL1850PI	interlock	mechanical interlock between two pushbuttons for pendant stations				240.36
	PRSL8512PI	spacer	pushbutton to contact block spacer (required for single pushbuttons)				70.16
	PRSL8750PI	support	contact block support (3 contacts) for additional pushbutton				185.16
	PRSL1830PI	cover	shallow protection cover for bottom mounted actuators				325.47
	PRSL1831PI	cover	deep protection cover for bottom mounted actuators				340.42
	PRTR1035PE	clip	stainless steel pendant case securing spring clip				212.76
	PRSL0145PE	sleeve	spare rubber cable sleeve for Mike pendants Ø 14 - 26 mm				366.87
	PRGA0012PE	hook	pendant hanging hook (top or bottom mounting)				54.06
	PRET0215PE	label	label sheet with selection of pendant symbols				396.77
	PRSL1845PI	black	blanking plug (blind pushbutton)				170.21
Colour discs with symbols for control station pushbuttons							
	type	background colour	symbol	description			price
	PRTA001MPI	green	start	symbol disc insert for control stations			75.91
	PRTA002MPI	red	stop	symbol disc insert for control stations			75.91
	PRTA003MPI	yellow	alarm	symbol disc insert for control stations			75.91
	PRTA004MPI	green	start alarm	symbol disc insert for control stations			75.91
	PRTA005MPI	white	arrow	symbol disc insert for control stations			75.91
	PRTA006MPI	black	arrow	symbol disc insert for control stations			75.91
	PRTA007MPI	white	arrow-fast	symbol disc insert for control stations			75.91
	PRTA008MPI	black	arrow-fast	symbol disc insert for control stations			75.91
	PRTA011MPI	white	arrow-2 spd	symbol disc insert for control stations			75.91
	PRTA012MPI	black	arrow-2 spd	symbol disc insert for control stations			75.91
	PRTA018MPI	black	spin left	symbol disc insert for control stations			75.91
	PRTA019MPI	white	spin right	symbol disc insert for control stations			75.91
	PRTA022MPI	black	spin left-fast	symbol disc insert for control stations			75.91
	PRTA023MPI	white	spin right-fast	symbol disc insert for control stations			75.91
	PRTA026MPI	black	spin left-2 spd	symbol disc insert for control stations			75.91
	PRTA027MPI	white	spin right-2 spd	symbol disc insert for control stations			75.91
	PRTA095MPI*	red	plain colour	symbol disc insert for control stations			75.91
	* Replace the 5 with: 6-green / 7-yellow / 9-black						
Charlie pendant control stations (IP65) double row pistol grip pendant							
	type	description	m/room	reset/ alarm	1 speed	2 speed	price
			1NC	2NO	1NO+1NO + common	1NO+1NO 1NO+com	
	PF39020001	2 way pendant station	-	-	2	-	806.18
	PF39020002	2 way pendant station	-	-	-	2	867.13
	PF39030001	3 way pendant station	1	-	2	-	895.88
	PF39030002	3 way pendant station	1	-	-	2	956.83
Spares and accessories for Charlie pendants							
	PRSL1000PI	contact	1 x NO	1 NO single contact element			219.66
	PRSL1001PI	contact	1 x NC	1 NC single contact element			219.66
	PRSL1002PI	contact	1 speed	1 speed double interlocked contact element			286.36
	PRSL1003PI	contact	2 speed	2 speed double interlocked contact element			496.82
	PRSL1009PI	stop		E/stop mushroom (latching - twist release)			626.77

Control & signalling



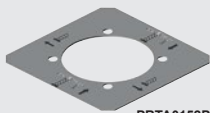
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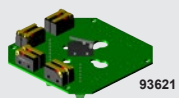
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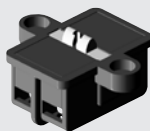
PRVV9035PE



PRTA0152PE



93621



PRSL0191PI

New **Hercules** joystick controller, completely new design for applications in harsh environments. Attention to design, ergonomics, operation accuracy ensure reliability and extended mechanical life. Available with up to 5 speeds in each direction with cross or 360° movement.

- IP protection degree: IP65 (*enclosure dependant*)
- Ambient temperature: Operational -25°C...+70°C
- Mechanical life: 5 x 10⁶ operations
- Connections: Screw type terminals • Utilisation category: AC 15
- Conformity to standards: IEC/EN 60204-1, 60947-1, 60947-5-1, 61000-6-2/3

type	no. steps		movement			description	price
	↑ ↓	← →	360°	cross	mech. interlock		

Hercules - Version with micro switch-board (rated thermal current 8A)

- Standard version with switch board and mounted high reliability micro switches
- Knob type lever with **dead man safety** mechanically interlocked and 1CO contact
- Inductive loads: 1A 125 VAC, 0.5A 250 VAC, 1A 30 VDC
- Resistive loads: 3A 125 VAC, 2A 250 VAC, 3A 30 VDC

F661AC0110	1	0		x	x	industrial joystick controller	9 457.90
F661AL0111	1	1	x		x	industrial joystick controller	9 457.90
F661AC0220	2	0		x	x	industrial joystick controller	9 457.90
F661AL0222	2	2	x		x	industrial joystick controller	9 457.90
F661AC0330	3	0		x	x	industrial joystick controller	9 457.90
F661AL0331	3	1	x		x	industrial joystick controller	9 457.90
F661AL0332	3	2	x	x	x	industrial joystick controller	9 457.90
F661AL0333	3	3	x		x	industrial joystick controller	9 457.90
F661AC0440	4	0		x	x	industrial joystick controller	11 421.01
F661AL0441	4	1	x		x	industrial joystick controller	11 421.01
F661AL0442	4	2	x		x	industrial joystick controller	11 421.01
F661AL0443	4	3	x		x	industrial joystick controller	11 421.01
F661AL0444	4	4	x		x	industrial joystick controller	11 421.01
F661AC0550	5	0		x	x	industrial joystick controller	11 421.01
F661AC0551	5	1	x		x	industrial joystick controller	11 421.01
F661AC0552	5	2	x		x	industrial joystick controller	11 421.01
F661AL0553	5	3	x		x	industrial joystick controller	11 421.01
F661AL0555	5	5	x		x	industrial joystick controller	11 421.01

Hercules-CK - Version with independent switches (rated thermal current 10A)

- Knob type lever mechanically interlock and 2 x NC contacts
- Rated current: 3A 250 VAC

F662AC0220	2	0		x	x	industrial joystick controller	9 695.96
F662AL0333	3	3	x		x	industrial joystick controller	10 177.82
F662AL0444	4	4	x		x	industrial joystick controller	11 149.60
F662AL0551	5	1		x	x	industrial joystick controller	10 184.72
F662AL0555	5	5	x		x	industrial joystick controller	11 523.37

Accessories for Hercules joysticks (above)

PA66301	mount kit	for 1 potentiometer onto Hercules joystick controller	572.72
PA66302	mount kit	for 2 potentiometer onto Hercules joystick controller	992.49
PA66303	mount kit	for 1 potentiometer onto Hercules-CK joystick controller	944.18
PA66304	mount kit	for 2 potentiometer onto Hercules-CK joystick controller	1 715.86
PRVV9035PE	2.2 kΩ	Megatron potentiometer for joystick controller	6 109.00
PRVV9020PE	4.7 kΩ	Megatron potentiometer for joystick controller	5 750.18
PRVV9025PE	10 kΩ	Megatron potentiometer for joystick controller	5 750.18
PRTA0150PE	label	blank label/legend plate for joystick controller	549.72
PRTA0151PE	label	"lifting-traverse" label/legend plate for joystick controller	549.72
PRTA0152PE	label	"trolley-rotation" label/legend plate for joystick controller	549.72

Spares for above Hercules joystick switches

93621	switch board	3 speed (8 switches)	for Hercules joystick controller	4 799.11
93625	switch board	5 speed (12 switches)	for Hercules joystick controller	7 106.08
PRSL4540PI	switch	2 x NC	for Hercules-CK joystick controller	577.32
PRSL4541PI	2 x switches	2 x NC	for Hercules-CK joystick controller	1 140.84
PRSL0191PI	switch	2 x NC	interlock for Hercules-CK joystick controller	1 153.49
PRGU6050PE	bellows	spare rubber bellows for Hercules joystick controller	1 153.49	
PRSL9890PI	half guide	half cross guide for lever of joysticks (2 x required)	95.46	

Stepless proportional joystick with built-in analog actuator (resolution: 10 bit)

- Supply voltage: 12 - 48 VAC/DC
- Proportional outputs: 2 x Current 4 - 20mA (or) 2 x Voltage 0 - 5 VDC
- Directional switches: 4 x directional switches

F661EC25555002	stepless	proportional output joystick controller	21 747.19
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PF34...



PRSL9873PI



PRTR0160PE



PF21270100



PF21270101



PF23...

Juliet - Small sized, compact joystick for control of industrial machinery. Controllers with different configurations are made up by using standard 3 or 5 step 4 direction units with lever guides which define final movement steps. Available with up to 5 speeds in each direction with cross or 360° movement.

- Ambient temperature: Operational -25°C...+70°C
- Mechanical life: 5x 10⁶ operations
- Utilisation category: AC 15
- Rated operational current: 2 A • Thermal current: 8A
- Rated operational voltage: 48 VAC
- Conformity to standards: EN 60204-1, 60947-1, 60947-5-1

type	no. steps		movement			description	price
	↑	↔	360°	cross	lever guide		

Juliet series - Joystick control switches IP65 (enclosure dependant)

PF34021004	1	0		x	9872PI	Juliet joystick controller	3 438.61
PF34021101	1	1	x		9871PI	Juliet joystick controller	3 438.61
PF34022004	2	0		x	9880PI	Juliet joystick controller	3 995.23
PF34022201	2	2	x		9876PI	Juliet joystick controller	4 099.88
PF34023004	3	0		x	9824PI	Juliet joystick controller	3 438.61
PF34023301	3	3	x		9826PI	Juliet joystick controller	4 761.15
PF34024004	4	0		x	9835PI	Juliet joystick controller	4 893.41
PF34023501	3	5	x		9842PI	Juliet joystick controller	6 214.80
PF34025501	5	5	x		9830PI	Juliet joystick controller	7 405.09

Replacement lever guides for other switching configurations

PRSL9873PI	2	1		lever guide	for Juliet joystick controllers	78.21
PRSL9838PI	3	1		lever guide	for Juliet joystick controllers	78.21
PRSL9841PI	3	2		lever guide	for Juliet joystick controllers	78.21
PRSL9844PI	4	1		lever guide	for Juliet joystick controllers	78.21
PRSL9845PI	4	3		lever guide	for Juliet joystick controllers	78.21
PRSL9849PI	4	4		lever guide	for Juliet joystick controllers	78.21
PRSL9839PI	5	1		lever guide	for Juliet joystick controllers	78.21
PRSL9828PI	5	2		lever guide	for Juliet joystick controllers	78.21
PRSL9825PI	5	4		lever guide	for Juliet joystick controllers	78.21
PRTR0160PE			cross	cross lever guide	for Juliet joystick controllers	82.81

Spares for Juliet joystick controllers

93558	switch board	3 speed (8 switches)	for Juliet joystick controller	4 291.94
93547	switch board	5 speed (12 switches)	for Juliet joystick controller	5 598.38
PRSL0173PI	bellows	spare rubber bellows for Juliet joystick controllers		593.42

Slip ring collectors Suitable for AC currents only

Slip ring collectors are sets of rings coupled with brushes designed to allow current to pass from a fixed to a rotating part. Used to supply crane motors and cable winders.

- Rated operational voltage: 400 V • Insulation voltage: 660 V
- Conformity to standards: EN 60204-1, EN60309-1, EN60529

type	current	No. of rings		description	price
		30A	10A		

10A series - Slip ring collectors 6.6 mm faston connections

PF21270100	10A	-	4	slip ring collector with driving slot	1 981.52
PF21270101	10A	-	4	slip ring collector without driving slot	2 004.52

30A series - Slip ring collectors (or combined with 10A auxiliary contacts)

The 30A slip ring collectors can be supplied with additional 10A auxiliary rings. Shock resistant thermoplastic protection preventing accidental contact of live parts.

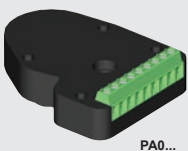
PF2304B001	30A	4	-	30A line slip ring collector	7 842.10
PF2306B002	30A	6	-	30A line slip ring collector	9 777.61
PF2309B002	30A	9	-	30A line slip ring collector	12 569.90

Combined 30A and 10A auxiliary rings

PF2306B003	30A	4	2	combined 30/10A slip ring collector	9 160.04
PF2308B001	30A	4	4	combined 30/10A slip ring collector	10 441.18
PF2310B001	30A	4	6	combined 30/10A slip ring collector	11 684.37

Additional 30A rings (up to a max. of 20 rings) price per ring (on request only) **POR**
 Additional 10A rings (up to a max. of 40 rings) price per ring (on request only) **POR**

Larger sizes 50A - 300A - 500A available on request.



Rotary limit switches are used to control and measure movement of industrial machinery by reading the rotation angle and/or counting the number of revolutions of a shaft. They operate as an auxiliary controller for electric motors through a power interface. The switch shaft can be connected to a motor and after a preset number of revolutions the cams operate a switch.

Each cam can be set with a high accuracy due to precision cam adjusting screws.

- Utilisation category: AC 15
- Rated operational voltage: 250 VAC
- Operational temperature: -40°C...+80°C
- Rated current: 3A operational / 10A thermal
- Conformity to standards: EN 60204-1/35, 60947-1/5-1, 60529, CSA-C22.2 No 14-13, UL 508

type	ratio	no. micro's	description	price
Base series - Wormgear limit switches 1 x CO (H) 84.5 x (W) 70 x (D) 106 mm				

- Protection degree: IP42
- Mechanical life: 1 x 10⁶ operations
- Connections: Faston 6.3 mm

PFA9142A0015001	15:1	2	Base miniature wormgear limit switch	1 192.59
PFA9142A0025001	25:1	2	Base miniature wormgear limit switch	1 191.44
PFA9142A0050001	50:1	2	Base miniature wormgear limit switch	1 139.69
PFA9142A0075001	75:1	2	Base miniature wormgear limit switch	1 206.39
PFA9142A0103001	100:1	2	Base miniature wormgear limit switch	1 192.59
PFA9142A0158001	150:1	2	Base miniature wormgear limit switch	1 192.59

Fox / Oscar series - Wormgear limit switches **1NO + 1NC**

- Protection degree: IP66, IP67, IP69K
- Mechanical life: 10 x 10⁶ operations
- Connections: Screw-type terminals with self-raising clamps

Fox series - Wormgear limit switches (H) 117 x (W) 75 x (D) 141 mm

PFB9067L0016010	15:1	2	Fox industrial wormgear limit switch	2 779.64
PFB9067L0027007	25:1	2	Fox industrial wormgear limit switch	2 622.09
PFB9067L0062033	50:1	2	Fox industrial wormgear limit switch	2 516.28
PFB9067L0103037	100:1	2	Fox industrial wormgear limit switch	2 599.09
PFB9067L0162007	150:1	2	Fox industrial wormgear limit switch	2 600.24
PFB9067L0222011	200:1	2	Fox industrial wormgear limit switch	2 600.24
PFB9067L0254019	250:1	2	Fox industrial wormgear limit switch	3 413.31

Cam set and switches can be replaced with a potentiometer or encoder (below) on Fox switches

Oscar series - Wormgear limit switches (H) 134.5 x (W) 119 x (D) 146.5 mm

Can be equipped with up to two cam sets (up to 10 switches) with potentiometers (alone or on top of cam sets with up to 3 switches) and Yankee absolute encoders (on top of cam sets with up to 4 switches)

PFC9067L0031032	25:1	2	Oscar industrial wormgear limit switch	3 799.72
PFC9067L0062004	50:1	2	Oscar industrial wormgear limit switch	3 728.42
PFC9067L0107014	100:1	2	Oscar industrial wormgear limit switch	3 927.38
PFC9067L0156004	150:1	2	Oscar industrial wormgear limit switch	4 207.99
PFC9067L0214004	200:1	2	Oscar industrial wormgear limit switch	4 134.38
PFC9067L0254004	250:1	2	Oscar industrial wormgear limit switch	4 187.29
PFC9067L0313023	300:1	2	Oscar industrial wormgear limit switch	4 136.68

Accessories for above Fox and Oscar switches

Standard cam set and switches		for Fox and Oscar switches			price
FCL20001	cam set	2	std. cam set with switches for Fox/Oscar		1 374.30
FCL40003	cam set	4	std. cam set with switches for Fox/Oscar		2 197.72

Potentiometer		10 kΩ - others available on request			price
PA020001	10	kΩ	potentiometer with support for Fox/Oscar		7 217.63

Incremental encoders		Push - Pull output			price
PA030001	36	pulses/rev	4.5 - 30 VDC	Encoder with support	8 463.12
PA030002	150	pulses/rev	4.5 - 30 VDC	Encoder with support	11 107.05

Yankee Absolute encoders		12 bit 4096 points per revolution			price
PA01AA01	current	4 - 20mA	12 - 48 VAC/DC	Absolute Encoder	5 942.24
PA01AB01	voltage	0 - 10V	12 - 48 VAC/DC	Absolute Encoder	5 363.77
PA01AC01	PWM	0 - 100%	12 - 48 VAC/DC	Absolute Encoder	5 363.77

Mounting accessories for Base, Fox, Oscar limit switches

PRSL0356PI	flange	mounting flange + screws and pins for Base/Fox/Oscar	549.72
PRSL0981PI	coupling	coupling with pin for Base/Fox/Oscar	1 099.44
PRSL0920PI	coupling	female coupling with pin for Base/Fox/Oscar	165.61
PRSL0919PI	coupling	male coupling with pin for Base/Fox/Oscar	165.61



Position limit switches

Cross position limit switches designed to control the movement of overhead travelling cranes, hoists and complex machine tools. Choice of materials and technical solutions adopted and heads with different types of rods and movements enable use in harsh operating conditions.

- Utilisation category: AC 15
- Rated operational voltage: 250 VAC
- Insulation voltage: 500 VAC
- Conformity to Standards: EN 60421-1, EN 60947-1, EN60947-5-1, EN60529

type	actuators	positions	micro sw	description	price
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Arke series - Position limit switches IP65, IP66, IP67 Class II

- Particularly suitable for use in harsh operating conditions with extreme temperature resistance
 - Cross rods with 4 maintained positions every 90° or single rod with 65° spring return movement
 - Enclosure and head in thermoplastic material (Nylon reinforced with fibreglass)
 - Positive opening NC contacts for safety functions

- Thermal current: 10A
- Rated operational current: 6A
- Operating temperature: -40°C...+80°C
- Mechanical life: 5 x 10⁶ operations
- Cable entry: Bottom or side (L or R) (supplied with M20 cable gland)
- Supplied with: 2 x (6 x 8 mm) aluminium rods (200 mm)

F201110001	X-rod	4 (fixed) 90°	2NC (1 staggered)	stop at 180°	4 166.59
F201120001	X-rod	4 (fixed) 90°	2NC (1 staggered)	free rotation	4 166.59
F201110002	X-rod	3 (fixed) 90°	1NO + 1NC	position limit switch	4 166.59
F202210001	rod-roller	spring ret 65°	1NO + 1NC	position limit switch	3 920.48

Tango series - Position limit switches IP65 Class II

Cross position limit switches designed for controlling the movement of overhead travelling cranes, hoists and complex machine tools.

- 3 rods with maintained positions every 60°
 - Equipped with 1NC double break slow action switches

- Thermal current: 10A
- Rated operational current: 3A
- Operating temperature: -25°C...+70°C
- Mechanical life: 1 x 10⁶ operations
- Cable entry: Bottom (supplied with M20 cable gland)
- Supplied with: Three 6 x 6 mm aluminium rods (300 mm)

PF48020001	X-rod	4 (fixed) 60°	2NC	position limit switch	2 005.67
PF48030001	X-rod	4 (fixed) 60°	3NC	position limit switch	2 148.27
PF48040001	X-rod	4 (fixed) 60°	4NC	position limit switch	2 289.73

X-FSC series - Position limit switches IP65 Class II

- Features cross rods with 3 or 4 maintained positions
 - T rods with 3 maintained position every 90°
 - Equipped with 2 x 1NO + 1NC snap action switches
 - Enclosure and head in thermoplastic material (Nylon reinforced with fibreglass)

- Thermal current: 10A
- Rated operational current: 3A
- Operating temperature: -25°C...+70°C
- Mechanical life: 1 x 10⁶ operations

PF33710100	T-rod	3 (fixed) 90°	1NO+1NC	position limit switch	2 465.68
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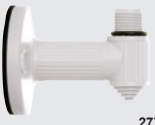
7551 series - Position limit switches IP65 Class I

Designed for the control of complex operating equipment. The choice of materials, technical solutions and ample dimensions make these switches ideal for use in strongly aggressive environments when exposed to severe operating conditions.

- Rods with 4 maintained positions every 90°
 - Die-cast aluminium alloy to guarantee maximum resistance to violent impact, chemical aggression and rust

- Thermal current: 10A
- Rated operational current: 3A
- Operating temperature: -40°C...+70°C
- Mechanical life: 1 x 10⁶ operations

PF26755100	X-rod	4 (fixed) 90°	2 x 1NO+1NC	position limit switch	4 366.69
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Multifunctional technology, permitting different selectable signalling levels Luminous devices engineered for industrial applications on machinery.								
type	lens colour	dB @ 1 meter	supply voltage	description	dimensions (mm)		price	
					Ø	ext.		
 38603								
 38654								
 38792								
 27762								
 30107								
MICROLAMP LED - LED signalling beacon - Surface mount IP54								
<ul style="list-style-type: none"> • Double insulated • M16 cable gland entry (gland supplied) • Multi-voltage: 12/24 VAC/DC (or) 90 - 240 VAC • 2 light effects: Steady - flashing (selectable via terminals) • LED flash rate: 140fpm ± 10% • Construction: Polycarbonate base and lens • Luminous intensity (Candela) : 2 cd max 								
38602	amber	–	12 - 24 VAC/DC	surface mnt signalling device	86	90	1 323.70	
38603	red	–	12 - 24 VAC/DC	surface mnt signalling device	86	90	1 323.70	
38604	green	–	12 - 24 VAC/DC	surface mnt signalling device	86	90	1 323.70	
38622	amber	–	90 - 240 VAC	surface mnt signalling device	86	90	1 605.46	
38623	red	–	90 - 240 VAC	surface mnt signalling device	86	90	1 605.46	
38624	green	–	90 - 240 VAC	surface mnt signalling device	86	90	1 605.46	
MICROLAMP LED and ACOUSTIC - signalling beacon IP30								
<ul style="list-style-type: none"> • Tone: 2700Hz. • Audible signal option with continuous or intermittent sound. • 2 alarm levels: Continuous sound with steady light / intermittent sound with flashing light • Luminous intensity (Candela) : 2 cd max 								
38632	amber	72	12 - 24 VAC/DC	surface mnt signalling device	86	111	1 865.36	
38633	red	72	12 - 24 VAC/DC	surface mnt signalling device	86	111	1 865.36	
38634	green	72	12 - 24 VAC/DC	surface mnt signalling device	86	111	1 865.36	
38652	amber	72	90 - 240 VAC	surface mnt signalling device	86	111	2 262.13	
38653	red	72	90 - 240 VAC	surface mnt signalling device	86	111	2 262.13	
38654	green	72	90 - 240 VAC	surface mnt signalling device	86	111	2 262.28	
<i>Other colours available on request.</i>								
OVOLUX LED - Multifunctional LED signalling beacon IP66								
<ul style="list-style-type: none"> • Bright LED with maximised performance • "R" panel mount (through 1/2" NPT hole) or "M" surface mounting • Multi-voltage: 12/24 VAC/DC (or) 90 - 240 VAC • 4 light effects: Steady - single - double - triple flash - (selectable via dip-switches) • Luminous intensity (Candela) : 35 cd max 								
Panel mount "R" version mounts through 1/2" NPT (22 mm) hole with (provided) lock ring								
38782	amber	–	12 - 24 VAC/DC	panel mount signalling device	76	69	2 021.77	
38783	red	–	12 - 24 VAC/DC	panel mount signalling device	76	69	2 021.77	
38784	green	–	12 - 24 VAC/DC	panel mount signalling device	76	69	2 021.77	
38792	amber	–	90 - 240 VAC	panel mount signalling device	76	69	2 357.58	
38793	red	–	90 - 240 VAC	panel mount signalling device	76	69	2 357.58	
38794	green	–	90 - 240 VAC	panel mount signalling device	76	69	2 357.58	
Surface mount "M" version M16 cable gland entry (IP65)								
38802	amber	–	12 - 24 VAC/DC	surface mount signalling device	114	115	2 273.63	
38803	red	–	12 - 24 VAC/DC	surface mount signalling device	114	115	2 273.63	
38812	amber	–	90 - 240 VAC	surface mount signalling device	114	115	2 610.59	
38813	red	–	90 - 240 VAC	surface mount signalling device	114	115	2 610.59	
<i>Other colours available on request.</i>								
OVOLUX RGB - multicolour steady light - LED beacon								
<ul style="list-style-type: none"> • Multi-coloured: White, amber, red, yellow, green, magenta, blue (7 colours in one beacon) • Luminous intensity (Candela) : 10 cd max 								
30107	multi	–	12 - 24 VAC/DC	panel mount signalling device	76	69	2 742.84	
30108	multi	–	90 - 240 VAC	panel mount signalling device	76	69	3 085.55	
Mounting accessories (for above panel mount beacons)								
27697	adaptor	for mounting Ovolux beacons onto a foot or wall mount base						161.01
27762	wall	wall mounting bracket for Ovolux (requires 27697 adaptor)						320.87
27764	base	surface mount base with extended foot (100 mm) (requires 27697 adaptor)						402.52

new



66502



66513



66554



90063

Multifunctional technology, permitting different selectable signalling levels

type	lens colour	supply voltage	description	dimensions (mm)		price
				Ø	ext.	

MINIFLASH LED medium size multifunctional beacons IP54

Medium size multifunctional LED beacon, developed with a multichannel technology. MINIFLASH LED is available in **MINIFLASH FLR** (steady, flashing, rotating light) or in **MINIFLASH SLR** (flashing, strobe, random light) version.

- Surface mounting with M16 cable gland entry (*cable gland supplied*)
- Dome-shaped Fresnel lens intensifies the luminous beam of these devices
- 3 x lighting effects controllable via independent electric contacts

MINIFLASH LED FLR

- LEDs allows a rotating effect perfectly simulating traditional rotating beacon, without moving parts
- 32x bright LEDs
- Luminous intensity (*Candela*) : 50 cd max
- Three luminous effects:
 - Steady light
 - Flashing light
 - Rotating light

66502	amber	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66503	red	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66504	green	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66512	amber	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82
66513	red	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82
66514	green	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82

MINIFLASH LED SLR

- SuperBright LEDs unique uneven flashing pattern designed for attracting attention
- Luminous intensity (*Candela*) : 230 cd max
- Three luminous effects:
 - Flashing light 1F
 - Strobe effect 5F
 - Random lighting effect

66542	amber	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66543	red	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66544	green	12 - 24 VAC/DC	multifunctional LED beacon	99	146	6 720.82
66552	amber	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82
66553	red	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82
66554	green	90 - 240 VAC	multifunctional LED beacon	99	146	6 720.82

Other colours available on request

Mounting accessories

72692	grey		wall mounting bracket for above MINIFLASH beacons			1 220.19
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ROTALLARM S LED multifunctional beacon IP65

ROTALLARM S LED features a powerful multivoltage/multifunction SMD LED electronic circuit offering outstanding performances together with the highest life expectancy in today's market. The structure guarantees high impact and vibration resistance.

- PC/ABS base with M20 cable gland, self extinguishing polycarbonate dome
- Polyurethane gasket on base
- 32x 5050 bright LEDs for improved visibility
- Luminous intensity (*Candela*) : 40 cd max
- Lighting effect:
 - Steady
 - Rotating
 - Flashing

ROTALLARM S LED rotating beacons

(H) 212 x Ø 142 mm

90061	blue	12 - 24 VAC/DC	multifunctional LED beacon	142	212	5 820.34
90062	amber	12 - 24 VAC/DC	multifunctional LED beacon	142	212	5 820.34
90063	red	12 - 24 VAC/DC	multifunctional LED beacon	142	212	5 820.34
90064	green	12 - 24 VAC/DC	multifunctional LED beacon	142	212	5 820.34
90081	blue	90 - 240 VAC	multifunctional LED beacon	142	212	8 003.11
90082	amber	90 - 240 VAC	multifunctional LED beacon	142	212	8 003.11
90083	red	90 - 240 VAC	multifunctional LED beacon	142	212	8 003.11
90084	green	90 - 240 VAC	multifunctional LED beacon	142	212	8 003.11

Other colours available on request.

Mounting accessories

72692	grey		wall mounting bracket for above ROTALLARM beacons			1 220.19
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P50 series - Panel mount LED signalling devices Ø50 mm

Multifunctional technology, permitting different selectable alarm levels via independent electric contacts. Illuminated dome (Ø50 mm) provides easy-to-see operator guidance and indication.

- Mounts through Ø22 mm pushbutton hole

type	lens colour	dB @ 1 meter	supply voltage	description	dimensions (mm)		price
					Ø	ext.	

P50 series - Panel mount LED signalling devices Ø50 mm IP66

- Mounts through Ø22 mm standard pushbutton hole secured with (provided) locking ring
- 6 bright LEDs. Polycarbonate dome with 360° light-diffusion design
- M12 4 PIN electrical connector (plug and cable supplied separately)

P50 S - Multifunctional LED signalling panel beacon IP66

- 7 different light effects - (steady, slow / fast flashing, double / triple flash, strobe, random flash)
- Luminous intensity (Candela) : 10 cd max

91362	amber	-	12 - 24 VAC/DC	panel mount signaling device	50	26.5	2 980.90
91363	red	-	12 - 24 VAC/DC	panel mount signaling device	50	26.5	2 980.90
91364	green	-	12 - 24 VAC/DC	panel mount signaling device	50	26.5	2 980.90

P50 RGB - Multicolour LED panel beacon - IP66

- Steady light with 7 different selectable colours - (white, amber, red, yellow, green, magenta, blue)
- Luminous intensity (Candela) : 10 cd max

91430	multi	-	24 VDC	multicoloured LED beacon	50	26.5	2 654.29
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P50 A - Panel mount piezoelectric acoustic sounder IP65

- Seven different types of audible alarms (controllable via independent electric contacts) (continuous, intermittent, double intermittent, triple intermittent, telegraph, random)

91367	grey	88/92	12 - 24 VAC/DC	panel mount audible sounder	50	27.5	2 854.39
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P50 A LED - Combination sounder and signal beacon IP65

- Allows 7 different types of sound/light effects - (controllable via independent electric contacts) (Steady light, Continuous sound, Steady light + Continuous sound, 2/3 Flashes - sync sound/light, Intermittent - sync sound/light, Random)
- Luminous intensity (Candela) : 10 cd max

91382	amber	88/92	12 - 24 VAC/DC	panel mount sounder/beacon	50	27.5	3 424.81
91383	red	88/92	12 - 24 VAC/DC	panel mount sounder/beacon	50	27.5	3 424.81

Other colours available on request.

P40 S - Multifunctional LED signalling panel beacon Ø41 mm IP65

- Mounts through Ø30 mm hole - (internal depth max. 37 mm)
- Light-diffusion through a light-concentrating lens for maximize frontal performance.
- Screw terminal connection
- Ø41 mm domed lens 360°

type	lens colour	dB @ 1 meter	supply voltage	description	dimensions (mm)		price
					Ø	ext.	

3 alarm levels: steady - flashing - strobe (selectable via electrical contacts)

- Luminous intensity (Candela) : 20 cd max

91132	amber	-	12 - 24 VAC/DC	panel mount signalling device	41	46	2 226.47
91133	red	-	12 - 24 VAC/DC	panel mount signalling device	41	46	2 226.47
91134	green	-	12 - 24 VAC/DC	panel mount signalling device	41	46	2 226.47
91152	amber	-	48 - 240 VAC	panel mount signalling device	41	46	2 226.47
91153	red	-	48 - 240 VAC	panel mount signalling device	41	46	2 226.47
91154	green	-	48 - 240 VAC	panel mount signalling device	41	46	2 226.47

P40 A - Piezoelectric acoustic sounder - selectable continuous - intermittent sound

91177	grey	85dB	12 - 24 VAC/DC	panel mount audible sounder	41	34	1 330.60
91179	grey	85dB	48 - 240 VAC	panel mount audible sounder	41	34	1 764.16

P40 A LED - Combination sounder and signal beacon IP65

3 alarm levels : flashing only / flashing + intermittent sound / steady light + continuous sound

- Luminous intensity (Candela) : 20 cd max

91182	amber	85dB	12 - 24 VAC/DC	panel mount sounder/beacon	41	34	1 577.85
91183	red	85dB	12 - 24 VAC/DC	panel mount sounder/beacon	41	34	1 577.85
91202	amber	85dB	48 - 240 VAC	panel mount sounder/beacon	41	34	2 011.42
91203	red	85dB	48 - 240 VAC	panel mount sounder/beacon	41	34	2 011.42

Other colours available on request.



E-LITE - Economic LED beacons

IP66

LED signalling device available in 5 colours with steady light, other luminous effects via PLC are possible. E-LITE offers virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000* hours of product life.

Clear lens with colored LED light source (14 LEDs). The vertically lined refractor allows a perfect light distribution over 360°. Steady light. Other luminous effects via PLC.

- Suitable for indoor or outdoor use
- Opaline (no colour dome) illuminated in the colour of internal LEDs
- Self-extinguishing PC body with high impact resistance IK06
- M12 - 4pin plug connection (cable and plug supplied separately)
- Integrated mounting base (3 mounting holes 120°)

type	lens colour	dB @ 1 meter	supply voltage	description	dimensions (mm) Ø ext.	price
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E-LITE series - Econo steady light LED beacon Ø70 mm IP66

- Available in 5 different steady light colours (other luminous effects via a PLC are possible)
- Luminous intensity (Candela) : 15 cd max

28241	blue		24 VDC	econo LED steady signal light	70 56	1 037.34
28242	amber		24 VDC	econo LED steady signal light	70 56	1 037.34
28243	red		24 VDC	econo LED steady signal light	70 56	1 037.34
28244	green		24 VDC	econo LED steady signal light	70 56	1 037.34
28246	clear		24 VDC	econo LED steady signal light	70 56	1 037.34

E-LITE RGB - Multicolour LED panel beacon

- 7 different selectable colours - (white, amber, red, yellow, green, magenta, blue) on one unit
- Available in steady light or with flashing (single flash) versions
- Luminous intensity (Candela) : 2-11 cd (colour dependant)

28323	multi	steady	24 VDC	multi coloured steady signal light	70 56	2 173.57
28325	multi	flashing	24 VDC	multi coloured flashing signal light	70 56	2 173.57

Accessories - for above E-LITE and P50 signalling devices

type	gender	pin	term.	plug angle	description	price
120104-02-022	female	4	screw	straight	M12 connector	186.31
120104-02-024	female	4	screw	90°	M12 connector	186.31
120104-06-053	female	4	cable	straight	2 meter cable + M12 connector	217.36
120104-06-061	female	4	cable	straight	5 meter cable + M12 connector	439.32
120104-06-017	female	4	cable	90°	2 meter cable + M12 connector	217.36
120104-06-010	female	4	cable	90°	5 meter cable + M12 connector	439.32

For more connectors with cable see page K-23-24

EOS WM series - LED stacklights Ø70 mm IP66, IP69K

Modular pre-assembled LED stacklight in versions with 2 or 3 steady light modules. Offers virtually zero maintenance thanks to built-in LED technology guaranteeing up to 100.000 hours life.

- Integrated LED steady light modules (other luminous effects via PLC)
- Opaline clear lens with coloured light source permits perfect light distribution over 360°
- Versions with piezoelectric sounder (75dB 1m)
- Smooth design that aides in dirt build-up on the surface
- Ideal for environments with high brightness
- Clear distinction between ON and OFF state
- Luminous intensity (Candela) : 4 cd max

Two module stacklight (green / red)

36901	green / red	12 - 24 VAC/DC	econo LED steady light stacklight	70 208	3 121.20
36903	green / red	12 - 24 VAC/DC	econo LED stacklight with sounder	70 248	3 999.83

Three module stacklight (green / amber / red)

36900	green/amber/red	12 - 24 VAC/DC	econo LED steady light stacklight	70 248	3 930.83
36904	green/amber/red	12 - 24 VAC/DC	econo LED stacklight with sounder	70 288	4 762.30

Multi-coloured (single) stacklight with incorporated sounder

36909	multi-coloured	12 - 24 VAC/DC	econo LED stacklight with sounder	70 208	3 802.02
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Mounting accessories for above EOS stacklights

36911	light grey		wall mounting base for lateral mounting	61 97	424.37
27760	light grey		flat base for surface mounting	67.5 34	241.51
27761	light grey		extension for above flat base (100 mm)		230.01



90823 + 90367



90504 + 90367



90351 + 90368



90363 + 90343



90362 + 90368

MLINE - Multivoltage - Multifunction - Modular - Multichannel

MLINE is a unique flexible, modular concept permitting different audio and signalling devices to be combined with facilities to mount them in the most practical way.

Different **DOMES** (*audio, visual or both*) can be mounted on any of six different **BASES** which determine the supply voltage of the unit - **12 - 24 VAC/DC** or **120 - 240 VAC**

- LED technology - zero maintenance built-in LED guaranteeing up to 100.000 hours of productive life

DOMES - beacons/sounders or combinations of both - require **BASES** (*see overleaf*) to complete device



Scan to watch video

type	lens colour	dB @ 1meter	description	dimensions Ø	H	price
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XLF S - Low profile beacon multifunctional LED signalling IP66

- Selectable light effects:**
- Steady light
 - Flashing (*single-flash 1F*)
 - Strobe effect (*5x flash*)
 - Random light effect

Adjustable brightness (3 levels)

Directional - Fresnel lens - (for long distance signalisation)

- Luminous intensity (*Candela*): 4200 cd max

90821	blue	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90822	amber	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90823	red	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90824	green	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90826	clear	—	multifunctional low profile LED beacon	92	42.5	2 919.95

Multi-coloured *red, green, blue, amber, yellow, cyan, violet, white selectable on one unit*

90156	multi	(85 cd)	multifunction/colour low profile beacon	92	42.5	3 429.41
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Proximity - Opaline lens - (for close proximity signalisation)

- Luminous intensity (*Candela*): 25 cd max

90502	amber	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90503	red	—	multifunctional low profile LED beacon	92	42.5	2 607.14
90504	green	—	multifunctional low profile LED beacon	92	42.5	2 607.14

FLR S - Tall beacon high optical performance LED signalling IP66

- 24 bright LEDs permit 3 selectable luminous effects
- Luminous intensity (*Candela*): 455 cd max

- Selectable light effects:**
- Steady light
 - Flashing (*triple flash strobe effect*)
 - Rotating light (*simulates traditional rotating beacon*)

90351	blue	—	multifunctional tall LED beacon	92	108	4 032.03
90352	amber	—	multifunctional tall LED beacon	92	108	4 032.03
90353	red	—	multifunctional tall LED beacon	92	108	4 032.03
90354	green	—	multifunctional tall LED beacon	92	108	4 032.03

SIR-E S - Multi-functional electronic sounder IP65

- High acoustic performance - adjustable volume
- Multi-tone 64 different sounds available (*selectable via internal dip switches*)
- Two separate functions: pre-alarm - alarm (*controllable via separate electric contacts*)

90360	grey	105 dB	multifunction sounder (<i>64 sounds</i>)	92	62	2 398.98
90358	red	105 dB	multifunction sounder (<i>64 sounds</i>)	92	62	2 398.98

SIR-E LED S - Combination beacon and sounder

- Selectable light effects - steady or strobe light effect
- Multi-tone 64 different sounds available (*selectable via internal dip switches*)

90362	amber	105 dB	beacon and sounder (<i>64 sounds</i>)	92	62	3 024.60
90363	red	105 dB	beacon and sounder (<i>64 sounds</i>)	92	62	2 933.75
90361	blue	105 dB	beacon and sounder (<i>64 sounds</i>)	92	62	3 024.60

SIR-E LED MAX - Combination beacon and high output sounder

90563	red	115 dB	beacon and sounder (<i>64 sounds</i>)	92	88	6 357.40
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SIR-E LED JUNIOR - Econo combination beacon/sounder

- Two lighting effects: steady - flashing

90402	amber	100 dB	beacon and sounder (<i>16 sounds</i>)	92	62	2 294.33
90403	red	100 dB	beacon and sounder (<i>16 sounds</i>)	92	62	2 294.33
90404	green	100 dB	beacon and sounder (<i>16 sounds</i>)	92	62	2 294.33



BASES - for MLINE beacons or sounders or combinations of both, provide a number of mounting options. On any of six different **BASES** which determine the supply voltage of the unit 12 - 24 VAC/DC or 120 - 240 VAC

type	lens colour	supply voltage	description	dimensions (mm)		price
				Ø	height	
SHALLOW compact low profile surface mount bottom cable entry						
90367	grey	LT 12-24 VAC/DC	Shallow base for MLine domes	92	21	316.26
90343	red	LT 12-24 VAC/DC	Shallow base for MLine domes	92	21	316.26
DEEP surface mount base with 2 x M20 side knockouts and compression glands						
90368	grey	LT 12 - 24 VAC/DC	Deep base for MLine domes	92	46	350.77
90345	red	LT 12 - 24 VAC/DC	Deep base for MLine domes	92	46	350.77
90369	grey	HT 120 - 240 VAC	Deep base for MLine domes	92	46	1 636.51
90827*	grey	HT 120 - 240 VAC	Deep base for MLine domes	92	46	1 219.04
WALL lateral wall mount base with 2 x M20 knockouts						
90370	grey	LT 12 - 24 VAC/DC	Wall base for MLine domes	115	61	418.62
90347	red	LT 12 - 24 VAC/DC	Wall base for MLine domes	115	61	418.62
90371	grey	HT 120 - 240 VAC	Wall base for MLine domes	115	61	1 878.01
90828*	grey	HT 120 - 240 VAC	Wall base for MLine domes	115	61	1 357.05
POLE pole mount base for 1.5" NPT threaded pole						
90610	grey	LT 12 - 24 VAC/DC	Pole mnt base for MLine domes	92	66	468.07
90612	grey	HT 120 - 240 VAC	Pole mnt base for MLine domes	92	66	2 102.27
FLUSH flush mount base for applications requiring low visual, discrete aesthetics						
90375	white	LT 12 - 24 VAC/DC	Flush base for MLine domes	146	71	556.62
90376	white	HT 120- 240 VAC	Flush base for MLine domes	146	71	2 258.68
DOUBLE wall mount base accomodates 2 x warning and/or signalling devices						
90372	grey	LT 12 - 24 VAC/DC	Double base for MLine domes	120	97	625.62
90373	red	LT 12 - 24 VAC/DC	Double base for MLine domes	120	97	625.62
90512	grey	HT 120 - 240 VAC	Double base for MLine domes	120	97	2 364.48

* Junior economical base only permits one function to be selected

Stainless steel protection grids (heavy duty) for MLINE beacons and sounders

type	size	SHALLOW Base	DEEP Base	price
		12 - 24 VAC/DC	12 - 24 VAC/DC - 120 - 240 VAC	
90557	size 0 for	XLF S/RGA	-	1 765.31
90551	size 1 for	SIR-E / SIR-E LED	XLF S/RGA	1 612.36
90552	size 2 for	SIR-E MAX/ SIR-E LED MAX	SIR-E / SIR-E LED	1 673.31
90553	size 3 for	FLR / SLR	SIR-E MAX/ SIR-E LED MAX	1 935.52
90554	size 4 for	-	FLR S / SLR S	2 001.07

TLINe series - LED industrial traffic lights IP66

TLINe traffic lights (based on **MLINE** philosophy), providing reliable signalling as well as versatile solutions, engineered for parking and access points.

The LED technology allows a better resistance to vibrations, longer life product, drastically reducing operating and maintenance costs. The self-extinguishing polycarbonate body guarantees high impact resistance.

These industrial traffic lights offer high visibility thanks to their dome, engineered to intensify the light beam, and to the visors supplied with the product.

Easy installation (two cable entries), a swivel fixing bracket or a pole mounting adapter are available as accessories.

- 3 luminous effects: steady light, flashing light, strobe effect (*controllable via separate contacts*)
- Luminous intensity (*Candela*): 4200 cd max

type	colours	supply	lens	description	price
TLINe 2 XLF 2 light - green/red (H) 231 x (W) 120 x (D) 133 mm					
69786	red/green	12 - 24 VAC/DC	Fresnel	2 way industrial LED traffic light	9 087.59
69787	red/green	120 - 240 VAC	Fresnel	2 way industrial LED traffic light	10 552.74
TLINe 3 XLF 3 light - green/amber/red (H) 342 x (W) 120 x (D) 133 mm					
69788	red/amber/green	12 - 24 VAC/DC	Fresnel	3 way industrial LED traffic light	12 753.90
69789	red/amber/green	120 - 240 VAC	Fresnel	3 way industrial LED traffic light	14 950.47

Accessories for traffic lights (above)

69784	wall bracket	swivel type	wall mount bracket for TLINe traffic lights	557.77
69785	NPT adaptor	adaptor	(required for pole mounting of traffic light)	535.92
27765	pole mount	base	with stainless steel pole (L) 424 mm	962.59
27766	pole mount	base	with stainless steel pole (L) 1240 mm	1 146.59

Up to 5 light modules or 4 light modules plus 1 x acoustic module can be combined with various colours permitting a number of signalling functions with multiple installation mounting options.

type	colour	dB @ 1m max	supply voltage	description	price
TWS SMD series - LED signal towers Ø70 mm IP66					
<ul style="list-style-type: none"> • Low power consumption, high vibration resistance, 100.000 hour lifetime • Multi-functionality, excellent optical definition, improved light output (12 LEDs) 					
TWS BASE - Wiring base + top cover for TWS towers (H) 48 mm					
27700*	grey	–		wiring base + top cover for above TWS towers	683.13
* Essential for assembly of TWS tower					
TWS LED MULTI - integrated LED light module (H) 59 mm					
- 4 light functions (selectable by dip switch on each module) steady - single flash - double flash - triple flash					
36501	blue	–	24 VAC/DC	multi-functional LED light module	1 416.85
36502	amber	–	24 VAC/DC	multi-functional LED light module	1 416.85
36503	red	–	24 VAC/DC	multi-functional LED light module	1 416.85
36504	green	–	24 VAC/DC	multi-functional LED light module	1 416.85
36505	yellow	–	24 VAC/DC	multi-functional LED light module	1 416.85
36506	white	–	24 VAC/DC	multi-functional LED light module	1 416.85
36521	blue	–	240 VAC	multi-functional LED light module	1 573.25
36522	amber	–	240 VAC	multi-functional LED light module	1 573.25
36523	red	–	240 VAC	multi-functional LED light module	1 573.25
36524	green	–	240 VAC	multi-functional LED light module	1 573.25
36525	yellow	–	240 VAC	multi-functional LED light module	1 573.25
36526	white	–	240 VAC	multi-functional LED light module	1 573.25
Acoustic module for above TWS towers IP54 (H) 104 mm					
TWS PZO - Piezoelectric sounder (6 tones selectable via internal dip-switch)					
27718	grey	85 dB	12 - 48 VAC/DC	acoustic module (6 sounds)	1 284.60
27719	grey	85 dB	110 - 240 VAC	acoustic module (6 sounds)	1 483.55
TWS MDA - magnetodynamic sounder (32 tones selectable via internal dip-switch)					
27790	grey	105 dB	12 - 24 VAC/DC	acoustic module (32 sounds)	2 326.53
27793	grey	105 dB	240 VAC	acoustic module (32 sounds)	3 329.36
miniTWS series - LED signal towers Ø50 mm IP66 (IP54 with sounder)					
<ul style="list-style-type: none"> • Pre-assembled ready to install stack lights in 2 or 3 modules • Low power consumption, high vibration resistance, 100.000 hour lifetime • Multi-functionality two light effects: steady, flashing 					
Two light stack light - (green / red)					
31594	grn/red	–	24 VAC/DC	LED signal tower complete	3 143.05
31596	grn/red	77 dB	24 VAC/DC	LED signal tower + acoustic sounder	3 851.48
Three light stack light - (green / amber / red)					
31595	grn/amb/red	–	24 VAC/DC	LED signal tower complete	3 772.12
31597	grn/amb/red	77 dB	24 VAC/DC	LED signal tower + acoustic sounder	5 305.12
babyTWS series- LED signal towers Ø36 mm IP65 (IP54 with sounder)					
<ul style="list-style-type: none"> • Pre-assembled ready to install stack lights in 2 or 3 modules • Low power consumption, high vibration resistance, 100.000 hour lifetime • Integrated steady light modules, excellent optical definition 					
Two light stacklight - (green / red)					
36566	grn/red	–	24 VAC/DC	LED signal tower complete	2 842.89
36568	grn/red	72 dB	24 VAC/DC	LED signal tower + acoustic sounder	3 300.61
Three light stacklight - (green / amber / red)					
36567	grn/amb/red	–	24 VAC/DC	LED signal tower complete	3 698.52
36569	grn/amb/red	72 dB	24 VAC/DC	LED signal tower + acoustic sounder	4 717.45
Accessories for TWS, miniTWS and babyTWS towers					
27760	BS	mount		mounting foot for TWS (Ø 88 mm)	241.51
27761	PR	ext.		100 mm extension stem for TWS towers	230.01
27762	BP1	bracket		wall mounting bracket for TWS towers	320.87
27763	BP2	double		wall mount bracket (double entry) for TWS towers	362.27
27777	M16	–		mounting foot with junction box for TWS towers	762.48





ELYPS signal tower/stack light system features modules which plug-in to each other to form specific functions Unique oval shape (50 - 70 mm) diameter variance depending on the viewing angle. Latest generation LED technology for highly effective indication with exceptional life (+100.000 hours)

- Supply voltage 12/24 VDC or 120 - 240 VAC/DC (determined by the wiring module)
- IP65 protection (suitable for indoor or outdoor use)
- Light modules configurable for "steady" or various modes of "flashing"

Modular stack lights - made up from four groups of modules

- Mounting base - Wiring module - Light modules - Acoustic modules

type	colour	supply voltage	mode	description	price
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ELYPS WM Wiring modules for all common wiring (determines supply voltage)

- Permits connection of up to 7 modules - steady, flashing or sound
- Supply voltage of the system is determined by the wiring module

LT	12 - 24 VDC	modules (direct connected)
HT	120 - 240 VAC/DC	modules (with built-in 12/24V transformer)

WM - wiring module - basic type without built-in flashing facility

32457	grey	LT	12 - 24 VAC/DC	steady	standard wiring module/base	552.02
32320	grey	HT	120 - 240 VAC	steady	standard wiring module/base	1 891.81

WM - MULTI wiring module - with built-in flashing facility

- Multi-functional flashing facility of each connected independent light module
- Configurable for "steady" or Single flash - Double flash - Triple flash - Strobe mode

32467	grey	LT	12 - 24 VAC/DC	flashing	multi LT wiring module/base	2 387.48
32326	grey	HT	120 - 240 VAC	flashing	multi LT wiring module/base	2 508.23

ELYPS Light modules steady light or individual selectable flashing

LM light module - economic, entry level LED light module with steady light

32331	blue	WM LT wiring module (24 VAC/DC only)	steady	plug-in steady light module	650.93
32332	amber		steady	plug-in steady light module	650.93
32333	red		steady	plug-in steady light module	650.93
32334	green		steady	plug-in steady light module	650.93
32335	yellow		steady	plug-in steady light module	650.93
32336	white		steady	plug-in steady light module	650.93

LM S - MULTI light modules - multifunctional 4 selectable light effects (via dip-switches)

- 2x FLASH - 3x FLASH - 5x FLASH - RANDOM (uneven flashing pattern)

32391	blue	according to selected wiring module	flashing	plug-in multi light module	1 658.36
32392	amber		flashing	plug-in multi light module	1 658.36
32393	red		flashing	plug-in multi light module	1 658.36
32394	green		flashing	plug-in multi light module	1 658.36
32395	yellow		flashing	plug-in multi light module	1 658.36
32396	white		flashing	plug-in multi light module	1 658.36

LM X - MULTI light modules - superbright multi-functional LED light module

- With superbright LED simulating traditional Xenon discharge lamps

32351	blue	according to selected wiring module	flashing	plug-in super brite light module	1 501.95
32352	amber		flashing	plug-in super brite light module	1 501.95
32353	red		flashing	plug-in super brite light module	1 501.95
32354	green		flashing	plug-in super brite light module	1 501.95
32355	yellow		flashing	plug-in super brite light module	1 501.95
32356	white		flashing	plug-in super brite light module	1 501.95

ELYPS Acoustic modules to add acoustic signalisation to luminous sectors

AM series Piezoelectric - 2 sound modes (intermittent or continuous)

32337	grey	acc. to wiring module	87 dB	plug-in acoustic module	1 886.06
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AM S series Magnetodynamic - 16 different sounds modes - adjustable volume 60 - 90 dB

32347	grey	acc. to wiring module	90 dB	plug-in acoustic module	2 508.23
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Mounting bases for signal towers

32357	grey	foot mounting base	for ELYPS signal towers	318.56
32377	grey	foot mount base with 10 cm ext.	for ELYPS signal towers	630.22
32367	grey	wall mounting base	for ELYPS signal towers	707.28
32387	grey	pole mounting base	for ELYPS signal towers	641.73



Industrial motor driven sirens

type	supply voltage	dB @ 1m	description	IP	run duration on	run duration off	dimensions (Ø) (H)	price
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MICRO W10 series motor driven sirens

Ideal choice for industrial applications, from general-purpose signalization to warning.

- Can be installed vertically or horizontally

42200	12 VDC	93	motor driven siren	IP42	(continuous)		84 80	1 013.19
42202	24 VDC	93	motor driven siren	IP42	(continuous)		84 80	1 013.19
42212	240 VAC	93	motor driven siren	IP42	(continuous)		90 129	1 757.26

CELERE series motor driven sirens

- Self-extinguishing PC body with high impact resistance
- Motor protection thermal circuit breaker installed on CELERE and superCELERE versions
- Easy installation by means of the integrated fixing bracket - **M12** cable gland

mini-CELERE miniature electro-mechanical siren

42006	12 VDC	101	motor driven siren	IP43	(continuous)		91 115	2 250.63
42001	24 VAC/DC	101	motor driven siren	IP43	1 min. 10 min.		91 115	2 250.63
42005	240 VAC/DC	101	motor driven siren	IP43	1 min. 10 min.		91 115	2 250.63

CELERE mid sized electro-mechanical siren

42026	12 VDC	110	motor driven siren	IP43	(continuous)		118 167	4 082.63
42021	24 VAC/DC	110	motor driven siren	IP43	1 min. 10 min.		118 167	4 082.63
42025	240 VAC/DC	110	motor driven siren	IP43	1 min. 10 min.		118 167	4 082.63

super-CELERE large size electro-mechanical siren

42046	12 VDC	114	motor driven siren	IP43	(continuous)		140 186	5 931.89
42047	24 VAC/DC	114	motor driven siren	IP43	(continuous)		140 186	5 931.89
42045	240 VAC/DC	114	motor driven siren	IP43	1 min. 10 min.		140 186	5 481.08

Electronic sirens

SE4/29 series modular base mount sirens

- Adjustable volume regulation and sound progression regulation
- 5 selectable sound tones
 - Continuous 1000 Hz
 - Bi-tone 600/700 Hz
 - Multi-tone 1000-1700 Hz
 - Modulated 1000-1700 Hz
 - Two-tone 440/560 Hz *for evacuation*

50415	12 - 24 VAC/DC	97	electronic siren	IP30	(selectable)		100 90	3 484.61
50418	240 VAC	97	electronic siren	IP30	(selectable)		100 90	5 072.81

SE12 series electronic sirens (hinged mounting bracket)

- Adjustable volume regulation and sound progression regulation
- 32 different tones (selectable via dip-switches) frequency ranges 300/2850 Hz

50424	12 - 24 VAC/DC	114	electronic siren	IP43	(selectable)		102 108	4 612.80
50427	240 VAC	113	electronic siren	IP43	(selectable)		130 108	5 381.02

SIR-TOUCH electronic siren super loud 120dB **IP68, IP69K**

- Unique touch programming
- 120 dB super loud siren (6 programmable volume levels)
- 64 different programmable sounds
- **M12** plug-in termination
- Available with built-in LED light

SIR-TOUCH Siren only

90750	24 VDC	120	electronic siren	IP68	(selectable)		180 207	9 056.54
90751	85 - 265 VAC	120	electronic siren	IP68	(selectable)		180 207	9 618.91

SIR-TOUCH LED Siren and LED beacon (programmable for steady light, flashing light or off)

90752	24 VDC	120	electronic siren	IP68	(selectable)		180 207	10 418.18
90753	85 - 265 VAC	120	electronic siren	IP68	(selectable)		180 207	11 069.10

Accessories for SIR-TOUCH siren

90754	mount				swivel wall mount bracket for above siren			844.13
90755	mount		SE 12		swivel base mount bracket for above siren			844.13
120104-06-053	4 Pin female				M12 PUR cable for SIR-TOUCH termination	2 meter		217.36
120104-06-061	4 Pin female				M12 PUR cable for SIR-TOUCH termination	5 meter		439.32

new



94734



94735

EOS 14.0 series - LED signal stack lights with analog communication standard

The **EOS 14.0** system uses an analog communication standard, different functions (*luminous and acoustic*) are activated with different input voltage thresholds. Connected to the network or to a cloud, the **EOS 14.0** system allows remote control and monitoring of machinery and could therefore be part of the Industry 4.0 for Human - Machine Interface (HMI).

EOS 14.0, the first visual and acoustic LED signal column with analog output provide 32 different signal alerts in the range 0 - 10 VDC. Available in different configurations, with one or two multicoloured RGB light modules, acoustic module (*2 levels of sound output*),

Supply voltage of the column is 24 VDC, the system is designed to activate luminous signalling 5 colours (*in steady or flashing light mode*) and acoustic signalling with input voltage thresholds (*adjustable 0-10 VDC*) using just one analog PLC output.

Through hysteresis, all voltage thresholds are protected from unwanted activations or colour changes.

32 different signals (*configurable with 0 - 10 VDC analog signal*)

- Supply voltage: 12/24 VAC/DC
- Protection: IP66 -IP69K - (*suitable for indoor or outdoor use*)
- Light module: 5 colours on one module (*"steady" or "flashing" mode*)
- Acoustic module: Selectable for sound A or B or OFF

type	colour	supply voltage	dB @ 1m max	mode/ colour selection	description	price
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EOS 14.0 series - Signal stack lite with analog communication standard

- One or two multi-coloured (*5 colours*) light modules
- One acoustic module providing 2 sounds A and B

Single multi-coloured light module + acoustic module 77 dB

94734	multi	12 - 24 VAC/DC	77 dB	0 - 10 VDC	analog controlled stack light	4 720.90
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Single multi-coloured light module + acoustic module 95 dB

94732	multi	12 - 24 VAC/DC	95 dB	0 - 10 VDC	analog controlled stack light	5 198.17
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Double multi-coloured light module + acoustic module 77 dB

94736	multi	12 - 24 VAC/DC	77 dB	0 - 10 VDC	analog controlled stack light	6 182.60
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Double multi-coloured light module + acoustic module 77 dB

94735	multi	12 - 24 VAC/DC	95 dB	0 - 10 VDC	analog controlled stack light	6 479.31
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EOS 14.0 series - Function table reference guide

- With the EOS 14.0, a PLC with one 0 - 10 VDC analog output allows 32 different functions to be configured.
- Through hysteresis, all voltage thresholds are protected from unwanted activations or colour changes. (refer to table below)



EOS 14.0 + PLC (with analog output)

FUNCTION	RANGE 0 - 10V	
	Value	±5%
NOTHING	0.35	±5%
LED OFF	1.00	±5%
STEADY RED	1.65	±5%
BLINKING RED	2.30	±5%
STEADY GREEN	3.00	±5%
BLINKING GREEN	3.65	±5%
STEADY BLUE	4.30	±5%
BLINKING BLUE	5.00	±5%
STEADY AMBER	5.65	±5%
BLINKING AMBER	6.30	±5%
STEADY WHITE	7.00	±5%
BLINKING WHITE	7.65	±5%
SOUND OFF	8.30	±5%
SOUND A	9.00	±5%
SOUND B	9.65	±5%
PULSE TIME	500 ms	2.5s



Signal beacons and towers

Signal beacons are fundamental elements for visual and audible signalling of system status in manufacturing processes.

type	colour	voltage	description	price
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Signal beacons Ø62 mm BA15d IP54

• Bases for various mounting solutions (supplied separately)

Steady light modules - BA15d lamp supplied separately (see bottom of page)

type	colour	voltage	description	price
LB6EL1	orange	lamp dependant	direct supply - steady light module	717.63
LB6EL3	green		direct supply - steady light module	717.63
LB6EL4	red		direct supply - steady light module	717.63
LB6EL5	yellow		direct supply - steady light module	717.63
LB6EL6	blue		direct supply - steady light module	717.63
LB6EL8	white		direct supply - steady light module	717.63

Blinking/steady light modules - BA15d lamp supplied separately (see bottom of page)

type	colour	voltage	description	price
LB6GLB1	orange	12 - 48 VAC/DC	blinking light module (no lamp)	995.94
LB6GLB3	green	12 - 48 VAC/DC	blinking light module (no lamp)	995.94
LB6GLB4	red	12 - 48 VAC/DC	blinking light module (no lamp)	995.94
LB6GLB5	yellow	12 - 48 VAC/DC	blinking light module (no lamp)	995.94
LB6GLB6	blue	12 - 48 VAC/DC	blinking light module (no lamp)	995.94
LB6GLM1	orange	24 - 230 VAC	blinking light module (no lamp)	995.94
LB6GLM3	green	24 - 230 VAC	blinking light module (no lamp)	995.94
LB6GLM4	red	24 - 230 VAC	blinking light module (no lamp)	995.94
LB6GLM5	yellow	24 - 230 VAC	blinking light module (no lamp)	995.94
LB6GLM6	blue	24 - 230 VAC	blinking light module (no lamp)	995.94

Mounting accessories for signal beacons (above)

type	colour	description	price
LB6BP03	black	horizontal surface mounting base	161.01
LB6BP05	black	through hole mounting base Ø22 mm with locknut	192.06
LB6BP07	black	base for extended tube connection	190.91
LT7BP01	black	surface mount base with 100 mm extension for LB6BP07	324.32
LT7BP02	black	wall mount base with 100 mm tube extension for LB6BP07	440.47

Super bright LED signal lamps BA15d (360° illumination) for above

type	colour	voltage	description	price
LT7ALLB*	red	24 VAC/DC	BA15d LED lamp for towers	479.57
LT7ALLM*	red	230 VAC	BA15d LED lamp for towers	538.22

* Replace with: 1= orange / 3= green / 4= red / 5= yellow / 6= blue / 8= white

Signal towers Ø50 mm IP65

Signal towers can be assembled by stacking the following components:

- 1) Wiring module for terminating (determines control voltage: 12 - 24 VDC or 110 - 230 VAC)
- 2) Up to 5 light modules (or) 4 light modules + 1 sound module
- 3) Add required mounting accessories

Wiring modules (required for termination of signal towers)

type	colour	voltage	description	price
LTN50MW024	grey	12...24 VDC	terminating modules for signal towers	1 075.29
LTN50MW230	grey	110...230 VAC	terminating modules for signal towers	1 956.22

Light modules - (integrated LEDs)

Configurable for steady light or blinking light - via internal DIP switch on each module

type	colour	voltage	description	price
LTN50ML1	orange	determined by wiring module	LED light modules for signal towers	717.63
LTN50ML3	green		LED light modules for signal towers	717.63
LTN50ML4	red		LED light modules for signal towers	717.63
LTN50ML6	blue		LED light modules for signal towers	717.63
LTN50ML8	white		LED light modules for signal towers	717.63
LTN50C	grey	top cover	required if no sound module is used	80.51

Sound module (continuous sound)

type	colour	voltage	description	price
LTN50MSL	grey	85dB	sound module for signal towers	754.43

Mounting accessories for signal towers (above)

type	colour	material	description	price
LTN50BP1	black	plastic	horizontal surface mounting base	174.81
LTN50BP3	black	plastic	surf mount base adjustable through 180°	348.47
LTN50BM1	metal	metal	horizontal surface mounting base	243.81
LTN50P100T	metal	metal	100 mm extension tube for base	166.76

new



Signal towers / Stack lights Ø70 mm

Signal towers are fundamental elements in manufacturing processes for visual and audible signalling of the system status. The signal towers can be assembled by stacking up to 5 light modules or 4 light modules and 1 sound module.

The modules feature exceptional brightness thanks to their plastic construction and the use of high-performance LEDs with a long service life.

The towers are quick and easy to install: simply align their reference marks and snap them together with a light twisting motion.

No. of stackable modules: 5 (5 x light modules or 4 x light and 1x sound)
 Light modules: Configurable as steady or flashing light
 Sound modules: Configurable as pulsed or continuous sound
 Compliant with standards: IEC/EN/BS 60947-5-1, IEC/EN/BS 60947-1, UL508, CSA C22.2 n° 14

type	colour	voltage	description	price
LED Signal towers Ø70 mm IP65				
Signal towers assembled by stacking the following components:				
1) Wiring module for terminating (<i>determines control voltage: 12 - 24 VDC or 110 - 230 VAC</i>)				
2) Up to 5 light modules (<i>or</i>) 4 light modules + 1 sound module				
3) Add required mounting accessories				
Wiring modules (required for termination of signal towers)				
LTN70MW024	grey	12...24 VDC	wiring modules for signal towers	1 236.29
LTN70MW230	grey	110...230 VAC	wiring modules for signal towers	2 250.63
Light modules - (integrated LEDs)				
Configurable for steady light or blinking light - via internal DIP switch on each module				
LTN70ML1	orange	determined by wiring module	LED light modules for signal towers	825.73
LTN70ML3	green		LED light modules for signal towers	825.73
LTN70ML4	red		LED light modules for signal towers	825.73
LTN70ML6	blue		LED light modules for signal towers	825.73
LTN70ML8	white		LED light modules for signal towers	825.73
LTN70C	grey	top cover	required if no sound module is used	92.01
Sound module - (continuous sound) IP65				
LTN70MSL	grey	85dB	sound module for signal towers	868.28
Mounting accessories for signal towers (above)				
LTN70BP1	black	plastic	horizontal surface mounting base	201.26
LTN70BP3	black	plastic	surf mount base adjustable through 180°	401.37
LTN70BM1	metal	metal	horizontal surface mounting base	279.46
LTN70P100T	metal	metal	100 mm extension tube for base	192.06

Signal towers and beacons: Interpretation of light and sound signals

- Light and sound signals are a fundamental element for the safety of a system
- Each colour or sound alarm corresponds to a specific state of operation of the connected system and various levels of warning, as shown in the table below, according to EN 981-IEC/EN/BS 60073 standards
- The white module can be assigned a meaning as desired

Visual Code	Red	Yellow	Orange	Blue	Green	White
Meaning	Danger / Emergency	Warning and caution - Abnormal situation	Mandatory command	Normal situation - Regular operation	No specific meaning	
Sound	Fast modulated repetition or high-pitch pulsing	Continuous short sound	Alternating sound at constant tone	Constant and prolonged sound after an alarm	Other sounds	
Correlated actions	Immediate intervention to deal with dangerous situation	Control intervention required	Intervention needed for mandatory action	No specific action	Depending on the situation	



KN3C-1R021



KN3C-R1221



MTS-102



DS-12

Toggle switches

type	current lth	pos.	config	mount hole Ø	switch	description	price
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KN3C series - Standard toggle switches

- Rating: 20A 125 VAC / 15A 250 VAC
- Termination: 6.3 mm tab terminals
(accepts 6.3 m std power toggle switch m push-on lugs)
- Mounting: **M12** x P1.0 mm threaded collar *(mounts through Ø12.2 mm panel hole)*
- Dielectric strength: 1500 VAC *(1 minute)*
- Legend: Supplied with ON/OFF legend plate

Single pole toggle switches

KN3C-R1021	15A	2 pos	on-off	12.7 mm	SPST	std power toggle switch	74.76
KN3C-R1121	15A	2 pos	on-on	12.7 mm	SPDT	std power toggle switch	74.76
KN3C-R1122	15A	3 pos	on-off-on	12.7 mm	SPDT	std power toggle switch	75.91

Double pole toggle switches

KN3C-R1221	15A	2 pos	on-off	12.7 mm	DPST	std power toggle switch	78.21
KN3C-R1321	15A	2 pos	on-on	12.7 mm	DPDT	std power toggle switch	79.36
KN3C-R1322	15A	3 pos	on-off-on	12.7 mm	DPDT	std power toggle switch	80.51

Accessories - for above toggle switches

WP-02	boot	rubber protection boot M12 for KN3C toggle switches					14.39
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MTS series - Miniature toggle switches

- Rating: 6A 125 VAC / 3A 250 VAC
- Termination: Solder terminals (W) 2.05 mm
- Mounting: **M6** x 0.75 threaded collar *(mounts through Ø6 mm panel hole)*
- Dielectric strength: 1000 VAC *(1 minute)*
- Operating temp: -25...+85°C

Single pole miniature toggle switches

MTS-102	3A	2 pos	on-on	6.5 mm	SPDT	miniature toggle switch	20.14
MTS-102T	3A	2 pos	on-(on)	6.5 mm	SPDT	spring return from R	25.65
MTS-103	3A	3 pos	on-off-on	6.5 mm	SPDT	centre off	23.47
MTS-103D	3A	3 pos	(on)-off-(on)	6.5 mm	SPDT	spring return from L+R	28.98
MTS-103T	3A	3 pos	on-off-(on)	6.5 mm	SPDT	spring return from R	26.80

Double pole miniature toggle switches

MTS-202	3A	2 pos	on-on	6.5 mm	DPST	miniature toggle switch	24.62
MTS-203	3A	3 pos	on-off-on	6.5 mm	DPST	centre off	27.95

Miniature pushbutton switch - black button

DS-12	3A	2 pos	on-(on)	6.5 mm	SPDT	spring return <i>(blk button)</i>	28.76
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Accessories - for above miniature switches

WP-01	boot	rubber protection boot for MTS miniature toggle switch					13.34
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