

Platinum Pushbuttons and selector switches p4-1 Metal button and selector actuators p4-27 Panel mount signal devices p4-42 Signal towers p4-44









Pushbuttons and selector switches

PLatinüim Ø22mm series

Quality Touch!



To simplify stock management, the series includes actuators without cap or lens and separate caps and lenses for quick installation or replacement on spring return and push-push types; all these are sold as accessories.

QUICK AND EASY ACTUATOR INSTALLATION



 Actuator fixing on the mounting surface, through a Ø22mm/0.87" drilled hole, is obtained using its threaded ring, easily rotated by hand or by socket spanner/wrench.



- There is an anti-rotation fastener, duly sized to avoid actuator rotation on the mounting surface and to give an orientation reference point for users during panel installation and during contact fitting on the actuator.
- This anti-rotation fastener collapses inside the gasket to allow fitting also when drilled holes are round without reference index.
- The sealing gasket for the actuator mounting surface has a gripping action (suction effect) offering additional adhesion properties.



The mounting adapter and the actuators each have clearly visible reference indications making the snap-on fitting between the two easy and intuitive.

Click!



Electrical contacts and LED elements are **snapped onto** the mounting adapter.

The activation of the middle contacts is standard supplied on all non-illuminated spring return and push-push button or selector switch actuators.



Ø22 3

30x40mm/1.18x1.57" between

drillings for two actuators on a

30x55mm/1.18x1.97" between drillings for two double and triple-touch actuators or when

spring clamp contacts are used.

REDUCED DIMENSIONS AND

INTERAXIS

Minimum pitch:

mounting surface

Total depth, from the external mounting surface to the end of the first contact element is just 43mm/1.69".

HIGH DEGREE OF PROTECTION IP66, IP67 and IP69K The actuators have been tested to guarantee a degree of protetection per IEC/EN IP66, IP67, IP69K and UL Type 4X, appropriate for use even in extreme ambient conditions.

- ELEGANT STYLE AND ERGONOMIC DESIGN
 All the series elements have an ergonomic design and, at the same time, particular care has been given to minimum detail aesthetics.
- LONG ACTUATOR MECHANICAL LIFE High performance characteristics assure 5,000,000 cycle mechanical life for spring-return actuators, 1,000,000 for double and triple touch units and 300,000 for emergency-stop types.
- MATERIALS RESISTANT TO OILS, SOLVENTS AND HYDROCARBONS
- USAGE AT EXTREME TEMPERATURE CONDITIONS Operation temperature range between -25° and +70°C.
- cULus, EAC, RINA and CCC CERTIFICATIONS.

• CONTACT ELEMENTS

- Miniaturised size
- High electric conductivity 5V 1mA
 Up to 9 contact elements can be
- installed - Available versions: Front and base mount with screw terminals while front-mount only with faston and
- spring-clamp terminals
 Contact operation: double breaking action, direct (positive) action operation and wiping effect.

HIGH-LUMINOSITY LED ELEMENTS



- Miniaturised size
- Long electrical life: 100,000h
- Versions for base mounting and with screw or spring-clamp terminals
- Overvoltage protection
- Withstand vibrations
 Protection against stray currents in wiring
- Flickering phenomenon reduction
- Steady and flashing light versions
 Supply voltages:
- 12-30VAC/DC
- 12-30VAC/DC • 85-140VAC
- 185-265VAC
- Test elements installed beside and connected with the relative LED element allow checking if all LED elements of the installation are working properly.



9706 4599 Adelaide (08) 8347 2499

Pushbuttons and selector switches

PLatinum Ø22mm series







Wt

Pushbuttons and selector switches

Qty

PLatinum Ø22mm series

Pushbutton actuators, spring return



LPC B10...





Push-push button actuators





		Colour	per pkg	
			n°	[kg]
	Flush (without mounting adapter). Spring return.			
	LPC B102	Black	10	0.025
	LPC B103	Green	10	0.025
	LPC B104	Red	10	0.025
	LPC B105	Yellow	10	0.025
	LPC B106	Blue	10	0.025
	LPC B108	White	10	0.025
	Extended (withou	t mounting adapter). S	pring return.	
	LPC B202	Black	10	0.027
	LPC B203	Green	10	0.027
	LPC B204	Red	10	0.027
	LPC B205	Yellow	1	0.027
	LPC B206	Blue	1	0.027
	LPC B208	White	1	0.027
Shrouded (without mounting adapter). Spring return.				
	LPC B302	Black	10	0.027
	LPC B303	Green	10	0.027
	LPC B304	Red	10	0.027
	LPC B305	Yellow	1	0.027
	LPC B306	Blue	1	0.027
	LPC B308	White	1	0.027

Order code Colour

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m Push on-push of	ounting adapter). f.		
LPC Q1020	Black	10	0.025
LPC Q1030	Green	10	0.025
LPC Q1040	Red	10	0.025
LPC Q1050	Yellow	1	0.025
LPC Q1060	Blue	1	0.025
LPC Q1080	White	1	0.025
Extended (without mounting adapter). Push on-push off.			
LPC Q2020	Black	10	0.027
LPC 02030	Green	10	0.027

10	0.027
10	0.027
/ 1	0.027
1	0.027
1	0.027

Use contact elements LPX C10A (EM) and LPXC01 (NC) only. Contact elements LPX C10 (NO) and LPX C01D (LB) cannot be fitted on these actuators.

For the number of contacts that can be fitted, see the indication here to the side.

Operational characteristics

- Any mounting position allowed
- Ambient conditions:
- Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection:
 Por IEC/EN: IP66 IP67
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL/CSA: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles.

Mounting adapter

See page 4-19.

Type: LPX AU120.

Actuators are installed through a \emptyset 22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements for spring-return button actuators See page 4-19, 4-22 or 4-23.

 Type
 Termination

 Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately).
 Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base mount types snap into LPZ control station base. See example on page 4-26.

 Up to 3 contacts can be fitted per control station actuator.

 1N0
 LPX CB10
 Screw

 1NC
 LPX CB01
 Screw

Contact elements for push-push button actuators See page 4-19.

Type: LPX C10A (1EM)

LPX C01 (1NC) Contacts snap onto the adapter and also internally on the cover surface of LPZ control stations.

Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind of the other; up to 3 elements per control station actuator.

All these actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.



Pushbuttons and selector switches PLatinum Ø22mm series

Mechanical reset buttons, complete unit, spring return



Pushbutton actuators,

LPC R1196

LPC B11..

LPC B21..

LPC B1502

	ooloui	per pkg	
		n°	[kg]
Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return.			
LPC R1002	Black	10	0.038
LPC R1003	Green	10	0.038
LPC R1004	Red	10	0.038
LPC R1006	Blue	10	0.038
LPC R11960	Blue (RESET)	10	0.038
Extended (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return.			
LPC R2004	Red	1	0.040

Qtv Wt

With "RESET" caption on actuator N.B. Not suitable for LPZ control stations

Order code Colour

Qty Wt Order code Symbol Colour per pkg spring return, with symbol n° [kg] Flush (without mounting adapter). Spring return. LPC B1102 0 Black 10 0.025 LPC B1104 Red 10 0.025 LPC B1113 L Green 10 0.025 LPC B1118 White 10 0.025 LPC B1123 Ш Green 1 0.025 LPC B1128 White 1 0.025 LPC B1132 STOP Black 0.025 1 LPC B1134 0.025 Red 10 LPC B1142 0.025 Black 10 0 LPC B1148 White 0.025 10 LPC B1152 0.025 Black 10 0 LPC B1158 White 0.025 10 0.025 LPC B1163 START Green 10 LPC B1168 White 1 0.025 LPC B1176 R Blue 1 0.025 LPC B1178 White 1 0.025 LPC B1196 RESET Blue 0.025 10 LPC B1502 Black 0.025 10 LPC B1512 Black 10 0.025 Extended (without mounting adapter). Spring return 10 LPC B2102 0.027 0 Black LPC B2104 10 0.027 Red STOP LPC B2132 1 0.027 Black LPC B2134 0.027 Red 10 Arrow symbol can be used to indicate right or left.

Arrow symbol can be used to indicate up or down



Operational characteristics

- Any mounting position allowed Fine rod adjustment (1-4mm/0.04-0.16") on front with
- screwdriver by removing actuator cap for mechanical reset buttons Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Mechanical endurance

Operating force: <0.5kg (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter See page 4-19. Type: LPX AU120.

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations except for LPC R... types. The mounting adapter directly snaps onto the actuator.

Contact elements for mechanical reset buttons See page 4-19 or 4-22.

Туре		Termination
Front mount types snap onto LPX AU120 mounting adap (to purchase separately), if any contacts are needed. Up to 6 contacts can be fitted: 3 each on the left and right, one behind the other.		
1N0	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1FM	L PX C10A	Screw

1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Contact elements for spring-return button actuators See pages 4-19, 4-22 or 4-23.

Туре

Termination Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately)

Up to 9 contacts can be fitted: 3 each on the left, middle and right; one behind the other.

They can also be fitted internally on the cover surface of control stations LPZ, up to 3 elements per actuator.

1N0	LPX C10	Screw
mo		001010
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 4-26

Up to 3 contacts can be fitted per control station actuator.

1NO	LPX CB10	Screw
1NC	LPX CB01	Screw

The LPC B... actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Perth (08) 9248 0410 Melbourne (03) 9706 4599 Adelaide (08) 8347 2499 Sydney (02) 9676 1671 Brisbane (07) 3274 3327



Pushbuttons and selector switches

PLatinum Ø22mm series

Symbol Colour Qty Wt

Order code

Pushbutton actuators, spring return, with symbol



spring return, with symbol	Order code	Symbol	Colour	Qty per pkg	Wt
spring return, with symbol				n°	[kg]
	Spring return (without mounting adapter).				
	LPCB00180	40	0	50	0.027
	LPCB00200	OPEN	0	50	0.027
	LPCB00210	CLOSED	0	50	0.027
	LPCB00220	/	0	50	0.027
	LPCB00230		0	50	0.027
LPC B1253	LPCBO0250	+	0	50	0.027
	LPCB00260	-	0	50	0.027
	LPCBO0270	즈	0	50	0.027
	LPCB00280	-Ö-	0	50	0.027
	LPCB00290	<u></u>	0	50	0.027
	LPCB00300	ALTO	0	50	0.027
	LPCB00310	BASSO	0	50	0.027
	LPCB00320	<u>م</u>	0	50	0.027
	LPCB00330	■ DX	0	50	0.027
	LPCB@@34@	MAN	8	50	0.027
	LPCB00350	AUTO	8	50	0.027
	LPCB00380	TRIP	8	50	0.027
	LPCB00396	TEST	0	50	0.027
	LPCB@@40@	\triangle	0	50	0.027
	LPCB@@41@	ı∱r	0	50	0.027
	LPCB@@42@	Θ	0	50	0.027
	LPCBO0430	0	6	50	0.027
	LPCBO0440	1 24	6	50	0.027
	LPCB00450	ww	0	50	0.027
	LPCB00460		0	50	0.027
	LPCBO0470	\Diamond	0	50	0.027
	LPCB00480	₹	0	50	0.027
	LPCB00490	†↓	0	50	0.027
	LPCB00520	N	0	50	0.027
	LPCB00530	Ŀ	0	50	0.027
	LPCB00540	.	0	50	0.027
	LPCB00550		0	50	0.027
	LPCB00560	START STOP	0	50	0.027
	LPCB00570		0	50	0.027
	LPCB00580	IV	0	50	0.027
	LPCB00590	₹	0	50	0.027
		"Å _*	6	50	0.027
• Add letter "L" if illuminated type is required.		τ, T	0	50	0.027
 Por the type of actuator, add: 1 for flush or 2 for extended. Add the actuator colour: 2 black only for non-illuminated 		$\overline{\mathbf{a}}$	0	50	0.027
type; 3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated version.		`	0	50	0.027
Products available on specific request for a minimum multiple quantity of 50 pieces per type.		0	0	50	0.027
Contact our Customer Service 1800 252 995 or		\bigcirc	0	50	0.027
sales@mechtric.com.au Symbol indicating dangerous voltage (IEC 60417 5036-a).		6 Contraction of the second se	0	50	0.027
Examples of complete order codes: LPC B2 25 8 – extended non-illuminated white pushbutton		↔	0	50	0.027
with + symbol LPC BL1 68 5 – flush illuminated yellow pushbutton			0	50	0.027
actuator with 🖄 symbol.	LPCB00690	**	0	50	0.027

Operational characteristics

- Any mounting position allowed
- Ambient conditions:
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL/CSA: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter See page 4-19.

Type: LPX AU120

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 4-19, 4-22 or 4-23.

Туре		Termination				
	Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately).					
Up to 9 contac	Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.					
	They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.					
1N0	LPX C10	Screw				
	LPX CF10	Faston				
	LPX CS10	Spring clamp				
1EM	LPX C10A	Screw				
1NC	LPX C01	Screw				
	LPX CF01	Faston				
	LPX CS01	Spring clamp				

LPX C01D 1LB Screw Base-mount types snap into LPZ control station base. See example on page 4-26.

Up to 3 contacts can be fitted per control station ac			
1NO LPX CB10		Screw	
1NC	LPX CB01	Screw	

All these actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14



PAGE 4-5 Perth (08) 9248 0410

Sydney (02) 9676 1671

Melbourne (03) 9706 4599

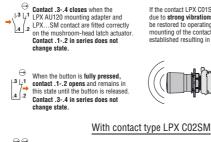
Adelaide (08) 8347 2499

Pushbuttons and selector switches PLatinum Ø22mm series

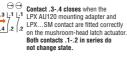
Mushroom head pushbutton actuators	Order code	Colour	Qty per pkg	Wt
			n°	[kg]
	SPRING RETURN. Ø40mm/1.6" (withou	it mounting ac	lapter).	
	LPC B6142	Black	10	0.033
	LPC B6143	Green	10	0.033
	LPC B6144	Red	10	0.033
LPC B614	LPC B6145	Yellow	10	0.033
	LPC B6146	Blue	10	0.033
	Ø60mm/2.4" (withou	it mounting ad	lapter).	
	LPC B6162	Black	10	0.038
	LPC B6163	Green	10	0.038
	LPC B6164	Red	10	0.038
LPC B674	LPC B6165	Yellow	10	0.038
LI 6 80/4	LPC B6166	Blue	10	0.038
	LATCH, PULL TO RE Ø40mm/1.6" (withou For normal stopping	ut mounting ad	lapter).	
	LPC B6742	Black	10	0.097
	For emergency stopp	oing, ISO 1385	i0 compliant.	
	LPC B6744	Red	10	0.097
LPC B6344	LATCH, TURN TO RE Ø40mm/1.6" (withou For normal stopping	ut mounting ad	lapter).	
	LPC B6342	Black	10	0.046
	LPC B6344	Red	10	0.046
	Ø30mm/1.2" (withou For emergency stopp			
LPC B6634	LPC B6634	Red	10	0.079
	Ø40mm/1.6" (withou For emergency stopp			
	LPC B6644	Red	10	0.079
	LATCH, TURN KEY T Ø40mm/1.6" (withou For normal stopping	ut mounting ad	dapter). Key c	ode n° 455
LPC B6644	LPC B6842	Black	10	0.083
	LPC B6842R0	Black	1	0.083
	For emergency stopp	, bing, ISO 1385	i0 compliant.	
	LPC B6844	Red	10	0.083
	LPC B6844R0	Red	1	0.083
LPC B684	 Versions with different l Complete with the nume The following versions a Example of complete co 	key codes. eric code of the ke are available: 421f de: LPC B6844R	y. 5, 458A, 520E, 3 421E.	131A, 3433E.
Normal operation of auto-monitor contact moun on surface or on cover of control stations With c		achment of or mounting ada	ly the contai	t element







A







If the contact LPX C02SM detaches from the actuato due to **strong vibrations or shock**, the equipment ca be restored to operating state only when proper mounting of the contact with the actuator is re-

resulting in contact .3-.4 closi

If the contact LPX C01SM detaches from the actuato due to strong vibrations or shock, the equipment car be restored to operating state only when proper mounting of the contact with the actuator is re-

resulting in contact 3- 4 clos

⊖ |.3 [.¹



Operational characteristics

- Any mounting position allowed
- Ambient conditions:
 - Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection: Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide

Mechanical endurance

Operating force: <0.5kg (actuator).

- Mechanical life:
- Mushroom head spring return buttons: 5,000,000 cycles Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

See page 4-19

Type: LPX AU120.

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 4-19, 4-22 or 4-23.

Туре Termination Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately). For SPRING-RETURN types, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other. For LATCH types, up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind the other. They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator. 1N0 LPX C10 Screw LPX CF10 Faston LPXCS10 Spring clamp 1FM LPX C10A Screw 1NC LPX C01 Screw LPX CF01 Faston LPX CS01 Spring clamp 1LB LPX C01D Screw Base-mount types snap into LPZ control station base. See example on page 4-26. Up to 3 contacts can be fitted per control station actuator. 1N0 LPX CB10 Screw 1NC LPX CB01 Screw AUTO-MONITOR CONTACT with MUSHROOM-HEAD LATCH TYPES only: 2 elements max of this type can be mounted. Extra two contacts can be fitted on the right. Two elements per actuator can be fixed internally on the cover surface of LPZ control stations of which one automonitor type. No LED element can be installed. Auto-monitor LPX C01SM Screw (2 stacked in the middle - LPX AU120 1NC pos.1/3-4/6) 1N0 Screw (2 stacked on the right) LPX C10 Faston (2 stacked on the right) LPX CF10 1NC LPX C01 Screw (2 stacked on the right) LPX CF01 Faston (2 stacked on the right)

AUTO-MONITOR CONTACT with MUSHROOM-HEAD LATCH TYPES only: 2 elements max of this type can be mounted. Only one of this type per actuator can be fixed internally on the cover surface of LPZ control stations. No LED element can be installed.

Auto-monitor	LPX C02SM	Screw (2 stacked)
2NC		

All these actuators are standard-supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1. IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Perth (08) 9248 0410

Melbourne (03) 9706 4599 Sydney (02) 9676 1671

Adelaide (08) 8347 2499

Brisbane (07) 3274 3327

PAGE 4-6



Pushbuttons and selector switches

PLatinüm Ø22mm series

Double-touch actuators, spring return





LPC B72..

Triple-touch actuators, spring return



Order code	Colour	Symbols	Qty per pkg	Wt
			n°	[kg]
Two flush pushb Both spring retu	(t mounting	adapter).	
LPC B7112	Black/Red		5	0.030
LPC B7113	Green/Red	—	5	0.030
LPC B7114	White/Black		5	0.030
LPC B7122	Black/Red	I-0	5	0.030
LPC B7123	Green/Red	1-0	5	0.030
LPC B7124	White/Black	1-0	5	0.030
LPC B7133	Green/Red	Start/Stop	5	0.030
One extended and one flush pushbuttons (without mounting adapter). Both spring return.				
LPC B7212	Black/Red		1	0.030
LPC B7213	Green/Red		5	0.030
LPC B7214	White/Black		1	0.030

LPC B/213	Green/Red		5	0.030
LPC B7214	White/Black		1	0.030
LPC B7222	Black/Red	I-0	5	0.030
LPC B7223	Green/Red	I-0	5	0.030
LPC B7224	White/Black	I-0	1	0.030
LPC B7233	Green/Red	Start/Stop	5	0.030

Order code	Symbols	Qty per pkg	Wt
		n°	[kg]
One middle exter (without mountin	ided buttons g adapter). Spring return		
LPC B7345	I	5	0.030
	STOP		
	II		
LPC B7355	↑	5	0.030
	I		
	STOP		
	↓ ↓		
LPC B7365		5	0.030
	STOP		
	←		
LPC B7375	_	5	0.030
	STOP		
	►		

Operational characteristics

- Any mounting position allowed
 Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mechanical endurance

Operating force: <0.5kg (actuator). Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 4-19. Type: LPX AU120.

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the

cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 4-19, 4-22 or 4-23.

Termination Туре Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately).

For DOUBLE-TOUCH actuators, up to 6 contacts can be fitted: 3 on the left, 3 on the right.

For TRIPLE-TOUCH actuators, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other. They can also be fitted internally on the cover surface of LPZ control stations: 2 for double-touch and 3 elements for triple-touch.

LPX C10	Screw
LPX CF10	Faston
LPXCS10	Spring clamp
LPX C10A	Screw
LPX C01	Screw
LPX CF01	Faston
LPX CS01	Spring clamp
LPX C01D	Screw
	LPXCS10 LPX C10A LPX C01 LPX CF01 LPX CS01

Base-mount types snap into LPZ control station base. See example on page 4-26.

For DOUBLE-TOUCH actuators. 2 contacts need to be fitted, one on the left and one on the right. For TRIPLE-TOUCH actuators, 3 contacts need to be

fitted: one each on the left, middle and right.

1NC	LPX CB01	Screw
1NO	LPX CB10	Screw

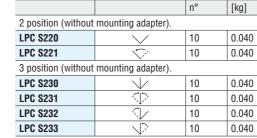
Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.



Pushbuttons and selector switches PLatinüm Ø22mm series

Selector switch actuators lever	Order code	Type of positions	Qty per pkg	Wt	
			n°	[kg]	
	2 position (with	out mounting adapter)			
	LPC \$120	\sim	10	0.03	
	LPC \$121	\sim	10	0.03	
	3 position (without mounting adapter).				
	LPC \$130	\checkmark	10	0.03	
	LPC \$131		10	0.03	
	LPC \$132	$\langle \rangle$	10	0.03	
LPC \$1	LPC \$133	$\sqrt{2}$	10	0.03	
Selector switch actuators long lever	Order code	Type of positions	Qty per pkg	Wt	
			n°	[ka]	



Order code	Type of position	Qty per pkg	Wt
		n°	[kg]
2 position (without	mounting adapter).		
LPC \$320	•	10	0.060
LPC S320RO		1	0.060
LPC \$321	• •	10	0.060
LPC S321RO		1	0.060
LPC S340	•,,	10	0.060
LPC S340RO		1	0.060
3 position (without	mounting adapter).		
LPC \$330	•	10	0.060
LPC S330RO		1	0.060
LPC \$331	•••	10	0.060
LPC S331RO		1	0.060
LPC \$332@	•	10	0.060
LPC S332ROO]	1	0.060
LPC \$333@		10	0.060
LPC S333ROO	1 🗸	1	0.060
LPC \$350	C• /	10	0.060
LPC S350RO] `/	1	0.060
LPC \$360	. •D	10	0.060
LPC S360RO] *	1	0.060
LPC \$370@		10	0.060
LPC \$370RO@	1 1	1	0.060
LPC \$380@	C•	10	0.060
LPC S380R00	1 `*	1	0.060
LPC \$390@	•	10	0.060
LPC S390RO@	1 1	1	0.060

 Versions with different key control Complete with the numeric c The following versions are a 421F 458A 520F 3131A 3433F Example of complete code: LPC S320 R421E. Available only on specific request

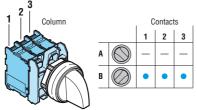
LPC S2...

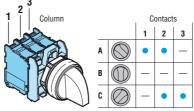
key

LPC S3..

Selector switch actuators

Contact activation of 2-position selector switch







Operational characteristics

- Any mounting position allowed
- Standard key types supplied with key code n° 455
- Ambient conditions:
 - Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.
- Materials Polvamide.

Mechanical endurance Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 4-19. Type: LPX AU120.

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 4-19, 4-22 or 4-23

Туре Termination Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right one behind the other

They can also be fitted internally on the cover surface of	
I P7 control stations up to 3 elements per actuator	

LPX C10	Screw	
LPX CF10	Faston	
LPXCS10	Spring clamp	
LPX C10A	Screw	
LPX C01	Screw	
LPX CF01	Faston	
LPX CS01	Spring clamp	
LPX C01D	Screw	
	LPX C10 LPX CF10 LPXCS10 LPX C10A LPX C01 LPX CF01 LPX CF01 LPX CS01	

Base-mount types snap into LPZ control station base. See example on page 4-26.

Up to 3 contacts can be fitted per control station actuator.			
1NO LPX CB10		Screw	
1NC	L PX CB01	Screw	

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one or both mechanism pins.

Type of position

- Maintained position.
- Spring return position. V
- Key extraction position.

Rotation angles

2 position



Special versions

Versions with coloured keys are available upon request. Contact our Customer Service 1800 252 995 or sales@mechtric.com.au

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Adelaide (08) 8347 2499

PAGE 4-8

Contact activiation of 3-position selector switch

	LPC S360RO
	LPC \$370@
odes.	LPC S370RO@
code of the key. vailable:	LPC S380@
vallable.	



Pushbuttons and selector switches

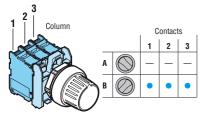
PLatinum Ø22mm series

Selector switch actuators knob



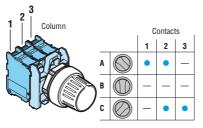
LPC S4...

Contact activation of 2-position selector switch



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without	mounting adapter).		
LPC S420	\sim	10	0.037
LPC S421	∇	10	0.037
3 position (without	mounting adapter).		
LPC \$430	\checkmark	10	0.037
LPC S431	$\langle \! \! \! \! \! \rangle$	10	0.037
LPC \$432	\swarrow	10	0.037
LPC S433	\sim	10	0.037

Contact activiation of 3-position selector switch



Operational characteristics

- Any mounting position allowed _
- Standard key types supplied with key code n° 455 _
- Ambient conditions: Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter See page 4-19. Type: LPX AU120. Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator. **Contact elements**

See page 4-19, 4-22 or 4-23.

Туре Termination Front-mount types snap onto LPX AU120 mounting

adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right, one behind the other.

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 4-26.

Up to 3 contacts can be fitted per control station actuator.			
1N0	LPX CB10	Screw	
1NC	LPX CB01	Screw	

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one or both mechanism pins.

Type of position

- Maintained position.
- Spring return position.

Rotation angles





Certifications and compliance Certifications obtained: cULus, EAC, CCC (ongoing), RINA (ongoing). Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.



Pushbuttons and selector switches PLatinum Ø22mm series

Illuminated button actuators, spring return



LPC BL10...



LPC BL20...

Illuminated push-push button actuators



LPC QL10...



LPC QL20...

Illuminated mushroom head button actuators



LPC BL614...



LPC BL664...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting adapter). Sprin	g return.	
LPC BL103	Green	10	0.025
LPC BL104	Red	10	0.025
LPC BL105	Yellow	10	0.025
LPC BL106	Blue	10	0.025
LPC BL107	Transparent	10	0.025
Extended (withou	t mounting adapter). Sp	oring return.	
LPC BL203	Green	10	0.027
LPC BL204	Red	10	0.027
LPC BL205	Yellow	10	0.027
LPC BL206	Blue	10	0.027
LPC BL207	Transparent	10	0.027

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (without mounting adapter).

Push on-push off.			
LPC QL1030	Green	10	0.025
LPC QL1040	Red	10	0.025
LPC QL1050	Yellow	10	0.025
LPC QL1060	Blue	10	0.025
LPC QL1070	Transparent	10	0.025
Extended (without mounting adapter). Push on-push off.			

r don on puon on.			
LPC QL2030	Green	10	0.027
LPC QL2040	Red	10	0.027
LPC QL2050	Yellow	10	0.027
LPC QL2060	Blue	10	0.027
LPC QL2070	Transparent	10	0.027

Use contact elements LPX C10A (EM) and LPXC01 (NC) only.

Contact elements LPX C10 (NO) and LPX C01D (LB) cannot be fitted on these actuators

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

SPRING RETURN.

Ø40mm/1.6" (without mounting adapter).

LPC BL6143	Green	10	0.035
LPC BL6144	Red	10	0.035
LPC BL6145	Yellow	10	0.035
LPC BL6146	Blue	10	0.035
LPC BL6148	White	1	0.035

LATCH, TURN TO RELEASE

Ø40mm/1.6" (without mounting adapter) For normal stopping.

i ei nennai eteppi	
LPC BL6643	Green

LPC BL6645	Yellow	1	0.040	
LPC BL6646	Blue	1	0.040	
For emergency stopping, ISO 13850 compliant.				
LPC BL6644	Red	10	0.040	

1

0.040



Operational characteristics

- Any mounting position allowed
- Ambient conditions:
 - Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mechanical endurance

Operating force: <0.5kg (actuator).

- Mechanical life:
- Spring-return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles
- _ Spring-return Mmushroom-head actuator: 5,000,000 cycles
- Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 4-19.

Type: LPX AU120.

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations. The mounting adapter directly snaps onto the actuator.

Contact elements for illuminated spring-return and

mushroom-head latch actuators See page 4-19, 4-22 or 4-23.

Front-mou	nt types shap onto	LPX AU120 mounting
	purchase separate	
		1up to 6 contacts can be
		ight, one behind the other.
		4 contacts can be fitted:
2 each on	the left and right, or	ne behind the other.
		Illy on the cover surface of
		elements per actuator in
addition to	the LED element in	1 the middle position.
1N0	LPX C10	Screw
	LPX C10 LPX CF10	Screw Faston
	LPX CF10	Faston
1N0	LPX CF10 LPX CS10	Faston Spring clamp
1NO 1EM	LPX CF10 LPX CS10 LPX C10A	Faston Spring clamp Screw
1NO 1EM	LPX CF10 LPX CS10 LPX C10A LPX C01	Faston Spring clamp Screw Screw

lase-mount types snap into LPZ control station base. See example on page 4-26.

Up to 2 contacts can be fitted per control station actuator

in addition to t	in addition to the LED element in the middle position.			
1NO LPX CB10 Screw				
1NC	LPX CB01	Screw		

Contact elements for illuminated push-push button actuators

See page 4-17

LPX C10A (1EM) Type:

LPX C01 (1NC) Contacts snap onto LPX AU120 adapter and also internally on the cover surface of LPZ control stations. Up to 4 contacts can be fitted: 2 each on the left and right, one behind the other; up to 2 elements per control station actuator in addition to the LED element in the middle position.

LED light elements

See pages 4-21 to 4-23.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



PAGE 4-10



Pushbuttons and selector switches

PLatinum Ø22mm series

Double-touch actuators, spring return, white indicator





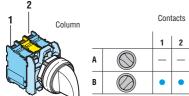
LPC BL72...

Illuminated selector switch actuators

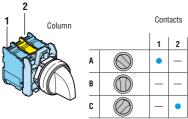


LPC SL1...

Contact activation of 2-position selector switch



Contact activation of 3-position selector switch



Order code	Colour	Symbol	Qty per pkg	Wt
			n°	[kg]
Two flush push Both spring ret	buttons (withou urn.	t mounting	adapter).	
LPC BL7112	Black/Red		5	0.030
LPC BL7113	Green/Red		5	0.030
LPC BL7114	White/Black		1	0.030
LPC BL7122	Black/Red	I-0	5	0.030
LPC BL7123	Green/Red	I-0	5	0.030
LPC BL7124	White/Black	I-0	5	0.030
LPC BL7133	Green/Red	Start/Stop	5	0.030
One extended a adapter). Both s	nd one flush pus spring return.	hbuttons (w	vithout mo	unting
LPC BL7212	Black/Red		1	0.030
LPC BL7213	Green/Red		5	0.030
LPC BL7214	White/Black		1	0.030
LPC BL7222	Black/Red	I-0	1	0.030
LPC BL7223	Green/Red	I-0	5	0.030
LPC BL7224	White/Black	1-0	5	0.030
LPC BL7233	Green/Red	Start/Stop	5	0.030
			-	
Order code	Colour	Type of positions	Qty per pkg.	Wt
			n°	[kg]
2 position (with	nout mounting a	dapter).		
LPC SL1203	Green		10	0.025
LPC SL1204	Red	$] \sim$	10	0.025
LPC SL1205	Yellow		10	0.025
LPC SL1206	Blue]	10	0.025
LPC SL1208	White		10	0.025
LPC SL1213	Green		10	0.025
LPC SL1214	Red		1	0.025
LPC SL1215	Yellow		1	0.025
LPC SL1216	Blue	1	1	0.025
LPC SL1218	White		10	0.025
3 position (with	hout mounting a	dapter).		
LPC SL1303	Green		10	0.025
LPC SL1304	Red	$ \vee $	10	0.025
LPC SL1305	Yellow	1	10	0.025
LPC SL1306	Blue		10	0.025
LPC SL1308	White		10	0.025
LPC SL1313	Green		10	0.025
LPC SL1314	Red		1	0.025
LPC SL1315	Yellow	1	1	0.025
LPC SL1316	Blue	1	1	0.02
LPC SL1318	White	1	10	0.025
	Green		10	0.025
LLPP OF 1959			1	0.025
LPC SL1323	l Red	-	1	0.025
LPC SL1324	Red Yellow			0.020
LPC SL1324 LPC SL1325	Yellow			0 025
LPC SL1324 LPC SL1325 LPC SL1326	Yellow Blue	-	1	
LPC SL1324 LPC SL1325 LPC SL1326 LPC SL1328	Yellow Blue White	-	1 10	0.025
LPC SL1324 LPC SL1325 LPC SL1326 LPC SL1328 LPC SL1333	Yellow Blue White Green		1 10 10	0.025
LPC SL1324 LPC SL1325 LPC SL1326 LPC SL1328 LPC SL1333 LPC SL1334	Yellow Blue White Green Red		1 10 10 1	0.025 0.025 0.025
LPC SL1324 LPC SL1325 LPC SL1326 LPC SL1328 LPC SL1333 LPC SL1334 LPC SL1335	Yellow Blue White Green Red Yellow	- \\$	1 10 10 1 1	0.025 0.025 0.025 0.025
LPC SL1324 LPC SL1325 LPC SL1326 LPC SL1328 LPC SL1333 LPC SL1334	Yellow Blue White Green Red	-	1 10 10 1	0.025 0.025 0.025 0.025 0.025 0.025 0.025

Operational characteristics

- Any mounting position allowed
- Ambient conditions:
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection: Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg (actuator). Mechanical life:

- double-touch: 1,000,000 cycles.
- selectors: 1,000,000 cycles.

Mounting adapter

See page 4-19.

Type: LPX AU120

Actuators are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator. **Contact elements**

See page 4-19, 4-22 or 4-23.

Туре

Termination Front-mount types snap onto LPX AU120 mounting adapter (to purchase separately).

For DOUBLE-TOUCH TYPES, up to 6 contacts can be fitted: 3 each on the left and right, one behind the other. For SELECTOR SWITCHES, up to 4 contacts can be fitted: 2 each on the left and right, one behind the other. They can also be fitted internally on the cover surface of LPZ control stations, up to 2 elements per actuator in addition to the LED element in the middle position.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base.

See example on page 4-26.

Up to 2 contacts can be fitted per control station actuator in addition to the LED element in the middle position.

1N0	LPX CB10	Screw
1NC	LPX CB01	Screw

Selector switch type of positions

- Maintained position.
- \checkmark Spring return position.

Selector switch rotation angles 2 position



LED light elements See pages 4-21 to 4-23.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.





CONTROL AND SIGNALLING UNITS Pilot lights PLatinum Ø22mm series

Pilot light heads



LPL...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mou	nting adapter.		
LPL 3	Green	10	0.024
LPL 4	Red	10	0.024
LPL 5	Yellow	10	0.024
LPL 6	Blue	10	0.024
LPL 7	Transparent	10	0.024
LPL 1187	Transparent 4 0	10	0.024

With symbol indicating dangerous voltage (IEC/EN 60417 5036-a).



Operational characteristics

- Any mounting position allowed
- Ambient conditions:
 - Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection: Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mounting adapter See page 4-19. Type: LPX AU120.

Pilot light heads are installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations, with LED element in central position.

The mounting adapter directly snaps onto the actuator.

LED light elements

See pages 4-21 to 4-23.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1 IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.

LED integrated monoblock pilot lights steady light



LPM...

Order code	Rated auxi- liary supply voltage	LED colour	Qty per pkg	Wt
			n°	[kg]
LPM LA3	12VAC/DC	Green	10	0.021
LPM LA4		Red	10	0.021
LPM LA5		Yellow	10	0.021
LPM LA6		Blue	10	0.021
LPM LA7		Transparent	10	0.021
LPM LB3	24VAC/DC	Green	10	0.021
LPM LB4		Red	10	0.021
LPM LB5		Yellow	10	0.021
LPM LB6		Blue	10	0.021
LPM LB7		Transparent	10	0.021
LPM LD3	48VAC/DC	Green	10	0.021
LPM LD4		Red	10	0.021
LPM LD5		Yellow	10	0.021
LPM LD6		Blue	10	0.021
LPM LD7		Transparent	10	0.021
LPM LE3	110VAC	Green	10	0.024
LPM LE4		Red	10	0.024
LPM LE5		Yellow	10	0.024
LPM LE6		Blue	10	0.024
LPM LE7		Transparent	10	0.024
LPM LM3	230VAC	Green	10	0.024
LPM LM4		Red	10	0.024
LPM LM5		Yellow	10	0.024
LPM LM6		Blue	10	0.024
LPM LM7		Transparent	10	0.024

Operational characteristics

- Nominal frequency: 50-60Hz Supply voltage: 12VAC/DC, 24VAC/DC, 48VAC/DC, _ 110VAC, 230VAC (-15%...+10% Ue)
- Consumption: ≤20mA
- _ Installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on cover of LPZ control stations
- Electrical life: >30,000 hours
- -Screw termination
- _ Side cable entry
- _ Maximum tightening torque: 0.8Nm
- _ Ambient conditions:
- Operating temperature: -5...+40°C
- Degree of protection: • per IEC/EN: IP66, IP67 and IP69K on front; IP20 at rear
 - per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials

Polyamide.

Maximum conductor cross section

1 or 2 1.5mm² or AWG16 cables.

Wiring diagram



Certifications and compliance

Certifications obtainedi: cULus (ongoing), EAC, CCC (ongoing).

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.





Potentiometer PLatinum Ø22mm series

Monoblock potentiometers



LPC PA..

Order code	Resistance value	Qty per pkg.	Wt
		n°	[kg]
LPC PA001	1kΩ	10	0.040
LPC PA002	2,5kΩ	10	0.040
LPC PA005	5kΩ	10	0.040
LPC PA010	10kΩ	10	0.040
LPC PA050	50kΩ	10	0.040
LPC PA100	100kΩ	10	0.040
LPC PA500	500kΩ	10	0.040

General characteristics

Monoblock potentiometers are typically used for regulating the parameters of many devices (e.g. the speed of the electric motors through static converters). The monoblock body design permits direct use of the potentiometer by panel fitting with fixing ring and subsequent tightening of cables into the built-in terminal block.

The potentiometer is made with Cermet technology, which ensures stable, constant resistance values over time. The, UL-certified, range is made for resistance values from 1 to 500kΩ. All potentiometers are IP66, IP67 and IP69K, which means that they can be used in demanding ambient conditions.

Operational characteristics

- rated insulation voltage Ui: 250VAC
- impulse withstand voltage Uimp: 4kV
- potentiometer included in the product
- monoblock body with 1-turn graduated scale
- any fitting position permitted Installed through a Ø22mm/0.89" drilling with a
- threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations - resistive material: cermet
- operation: linear
- resistance tolerance: ±10%
- max. power: 1W (70°C)
 mechanical endurance: 25,000 operations
- mechanical travel: 290° _
- Side cable entry
- Ambient conditions:
 - Operational temperature: -25...+70°C
 - Storage temperature: -40...+85°C
 - Degree of protectione: • per IEC/EN: IP66, IP67 and IP69K on front
 - per IEC/EN: IP20 at rear
 - per UL: type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials Polyamide.

Maximum conductor cross section

Screw terminal connections with three separate connections:

- min. cable 0.5mm² / AWG24
- max. cable 2.5mm² / AWG14
- maximum tightening torque: 0.5Nm
- flat-head screwdriver: 0.6 x 3.5mm.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC (ongoing), RINA (ongoing). Compliant with standards: IEC/EN 60947-1,

IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Buzzers and communication interface PLatinum Ø22mm series

nev

Monoblock buzzers



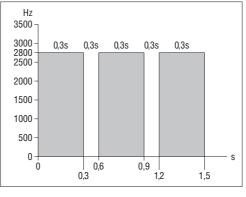
LPC ZS...



LPC ZS...IP

Order code	Voltage	Sound intensity at 2800Hz	Qty per pkg.	Wt
	[V]	[dB/10cm]	n°	[kg]
Continuous or p	oulse tone, IP40 ver	rsion.		
LPC ZSA	915VAC/DC	90	1	0.020
LPC ZSB	1830VAC/DC	90	1	0.020
LPC ZSE	85140VAC/DC	90	1	0.020
LPC ZSM	185265VAC/DC	90	1	0.020
Continuous or p	oulse tone, IP66, IP	67, IP69K ve	rsion.	
LPC ZSAIP	915VAC/DC	80	1	0.020
LPC ZSBIP	1830VAC/DC	80	1	0.020
LPC ZSEIP	85140VAC/DC	80	1	0.020
LPC ZSMIP	185265VAC/DC	80	1	0.020

Pulse-tone sound graph



USB and RJ45 communication interfaces



Order code	Description	Qty per pkg.	Wt
		n°	[kg]
LPC D01	USB interface, A/A female type connection	1	0.018
LPC D03	USB interface, A/B female type connection	1	0.018
LPC D05	USB interface, B/A female type connection	1	0.018
LPC D06	RJ45 interface, Ethernet connection type	1	0.026





LPC D03

LPC D05



General characteristics

Monoblock buzzers are used as sound indicators in automation systems and on-board machinery in the production processes, Long life, low consumption values, compact size and the use of materials, in accordance with the North American market, are the main features of this product.

Operational characteristics

- Rated frequency: 50...60Hz Supply voltage: 9..15VAC/DC, 18..30VAC/DC, 85..140VAC/DC, 185..265VAC/DC
- Maximum absorption: 20mA-0,30W (type
 Maximum absorption: 20mA-0,30W (type
 9.15VAC/DC), 15mA-0,40W (type 18..30VAC/DC),
 5,5mA-0,80W (type 85..140VAC/DC), 3,5mA-0,95W (type 185..265VAC/DC)
- minimum activation voltage: >4V (type 9..15VAC/DC),
 >8V (type 18..30VAC/DC), >15V (type 85..140VAC/DC), >25V (type 185..265VAC/DC)
 impulse withstand voltage Uimp: 4kV
 Installed through a Ø22mm/0.89" drilling with a
- threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations
- Service life: 30,000 hours (permanently powered)
- Side cable entry
- Ambient conditions:
 - Operational temperature: -25...+70°C
 Storage temperature: -40...+85°C
- Degree of protection (type LPC ZS...IP):
 per IEC/EN: IP66, IP67, IP69K on front and IP20 at rear
 per UL: type 1, 2, 3R, 4, 4X, 12, 12K on front.
- Materials Polvamide.

Maximum conductor cross section

Screw terminal connections with three separate connections:

- min. cable 0.5mm² / AWG24
 max. cable 2.5mm² / AWG14
- maximum tightening torque: 0.5Nm
- flat-head screwdriver: 0.6 x 3.5mm.

Certifications and compliance Certifications obtained: cULus (ongoing), EAC, CCC (ongoing), RINA (ongoing). Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.

General characteristics

USB and RJ45 communication interface connectors are used in industrial environments, which in recent years have seen an increase in the number of connections between machines, production lines, equipment and measuring instruments. These interfaces provide the transmission of data in both directions between the various devices.

Operational characteristics

- rated insulation voltage for LPCD01, LPCD03, LPDC05: 5VAC/DC
- rated insulation voltage for LPDC06: 24VAC
- interface mechanical endurance: ≥750 insertions
- Installed through a Ø22mm/0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm) also on the cover of LPZ control stations
- transmission characteristics for LPCD01, D03, D05: 5Gbps (625MB/sec)
- transmission characteristics for LPCD06: 10 Gigabit Ethernet IEEE 802.3an-2006 rated current for LPCD01, LPCD03, LPCD05: 1.8A
- rated current for LPCD06: 1.5A
- insulation resistance: ≥100M0hm

- contact resistance for LPCD01, LPCD03, LPCD05: <30m0hm contact resistance for LPCD06: <40m0hm USB connector class: 3.0 (backward compatible with USB class 2.0)
- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protection:
 - per IEC/EN: IP65 on front (with cap mounted)
 per IEC/EN: IP20 at rear
 per UL: type 1, 2, 3R, 4, 4X, 12, 12K on front (with
 - cap mounted)

Materials

Polvamide

Certifications and compliance

Certifications obtained: cULus, EAC, CCC (ongoing), RINA (ongoing)

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.



PAGE 4-14



Accessories and spare parts PLatinum Ø22mm series

Accessories and spare parts



LPX A130











LPX BO









LPX BL105



Order code	Description	Qty per	Wt
		pkg. n°	[ka]
LPX A127	Transparent diffuser for	10	[kg] 0.001
	double-touch buttons	10	0.001
LPX A130	Threaded plug for unused drilled holes (grey)	10	0.007
LPX A140	Action plug for centre contact	50	0.001
LPX A150	Rod for mechanical reset button (I=150mm)	10	0.006
LPX A170	Spare standard key set for selector switches or mushroom-head buttons, key code n° 455	10	0.008
LPX A170RO	Spare key set for selector switches or mushroom head buttons, LPC R type	1	0.008
LPX AU00	Threaded ring for actuator fixing	20	0.002
LPX P01	M20 cable gland with threaded ring for LPZ control stations	50	0.012
LPX BO	Flush-extended spring return actuator with no cap	10	0.013
LPX B3	Shrouded spring return actuator with no cap	10	0.014
LPX QO	Flush-extended push-push actuator with no cap	10	0.013
LPX QLO	Illuminated flush-extended push-push actuator with no lens	10	0.013
Flush cap for spring	g-return actuators.		
LPX B102	Black	10	0.002
LPX B103	Green	10	0.002
LPX B104	Red	10	0.002
LPX B105	Yellow	10	0.002
LPX B106	Blue	10	0.002
LPX B108	White pring-return actuators.	10	0.002
LPX B202	Black	10	0.003
LPX B202	Green	10	0.003
LPX B204	Red	10	0.003
LPX B205	Yellow	10	0.003
LPX B206	Blue	10	0.003
LPX B208	White	10	0.003
Flush lens for illumi actuators .	inated spring-return		
LPX BL103	Green	10	0.002
LPX BL104	Red	10	0.002
LPX BL105	Yellow	10	0.002
LPX BL106	Blue	10	0.002
LPX BL107	Transparent	10	0.002
Extended lens for il actuators.	luminated spring-return		
LPX BL203	Green	10	0.003
LPX BL204	Red	10	0.003
LPX BL205	Yellow	10	0.003
LPX BL206	Blue	10	0.003

LPX BL207 10 0.003 Transparent Versions with different key code. Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E Example of complete code: LPX A170R421E.



PAGE 4-15

Accessories and spare parts PLatinüm Ø22mm series



Accessories and spare parts LPX AU100



LPX AU108 LPX AU109



LPX AU158



8 LM2T A185



LPX AU159



LPX DIN

Order code	Description	Qty per pkg.	Wt
		n°	[kg]
LPX AU100	Label holder for engraved plastic LPX AU109 label	50	0.001
LPX AU109	Engravable silver plastic label to use with LPX AU100 holder	50	0.002
LPX AU105	Label holder for engraved plastic LPX AU108 label	50	0.003
LPX AU108	Engravable silver plastic label to use with LPX AU105 holder	50	0.002
LPX AU1300	Rubber boot for flush button LPC B1/BL1/R1	10	0.006
LPX AU1400	Rubber boot for buttons LPC B2/3, LPC BL2 and LPC R2	10	0.009
LPX AU157	Rubber boot for double and triple-touch buttons, transparent	10	0.007
LPX AU167@®	Rubber boot for mushroom head buttons LPC B63/B66/B67/ BL66 transparent	10	0.012
LPX AU15800	Padlockable protection, Ø5-8mm locks or buttons LPC B66/B67/ B68/BL664; for LPC B634 Ø5-6mm/0.2-0.24" locks only.	10	0.005
LPX AU159@@	Shroud for buttons LPC B63, LPC B66/67/68/BL666	10	0.010
LPX DIN	Adapter for mounting LPC buttons on DIN rail 35mm wide (2 modules)	10	0.008
Other accessories	5		
8 LM2T A161	Ø30mm/1.2" hole size adapter set for 22mm/ 0.87" (use 2 per hole)	10	0.002
8 LM2T A185	Yellow selector protection shroud for knob type only	10	0.004
8 LM2T A200	Socket spanner/wrench for fixing ring fitting, metal	1	0.184

For flush and extended push buttons, comple the order code by adding the digit of the required colour:
 2 (black); 3 (green): 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white). For illuminated push buttons, add only digit 7 (transparent).
 Cannot be used when LPX AU100 or LPX AU105 is fitted.
 Cannot be used when LPX AU167 is fitted.





Wt

Qty

per pkg

Accessories and spare parts

PLatinüm Ø22mm series

Order code

Text

Labels with text for LPX AU100 legend holder

STOP

8 LM2T AGB230

		per pkg	
		n°	[kg]
General use.			-
8 LM2T AU206	Blank for writing	50	0.001
8 LM2T AU207	Sheet with 108 labels for laser printing	10	0.005
8 LM2T AU208⊕	Sheet with 108 customized text	10	0.005
8 LM2T AI210	LATCH	50	0.001
8 LM2T AI211	OPEN	50	0.001
8 LM2T AI212	STOP	50	0.001
8 LM2T AI213	GENERAL STOP	50	0.001
8 LM2T AI214	STOP RESET	50	0.001
8 LM2T AI215	FORWARD	50	0.001
8 LM2T AI216	CLOSE	50	0.001
8 LM2T AI217	RIGHT	50	0.001
8 LM2T AI218	LOWER	50	0.001
8 LM2T AI219	DEACTIVATED	50	0.001
8 LM2T AI220	EMERGENCY	50	0.001
8 LM2T AI221	OFF	50	0.001
8 LM2T AI222	REVERSE	50	0.001
8 LM2T AI223	ON	50	0.001
8 LM2T AI237	INTERVENTO TERMICO	50	0.001
8 LM2T AI224	SLOW	50 50 50 50 50 50 50 50 50	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
8 LM2T AI225	START		
8 LM2T AGB226	RESET		
8 LM2T AI226	RESET		
8 LM2T AI227	RAISE		
8 LM2T AI228	LEFT		
8 LM2T AI229	POWER ON		
8 LM2T AGB225	START	50	
8 LM2T AGB230	STOP	50	
8 LM2T AGB214	STOP-RESET	50	0.001
8 LM2T AI231	FAST	50	0.001
For selector switc	hes.		
8 LM2T AI232	ARR-MAR	50	0.001
8 LM2T AI233	AUTO-MAN	50	0.001
8 LM2T AI234	AUTO-O-MAN	50	0.001
8 LM2T AI242	MAN-O-AUTO	50	0.001
8 LM2T AI235	FWD-0-REV	50	0.001
8 LM2T AI236	ON - OFF.	50	0.001
8 LM2T AI241	MAN-AUTO	50	0.001
8 LM2T AGB232	STOP-START	50	0.001
8 LM2T AGB236	OFF-ON	50	0.001
International labels		1	
8 LM2T AU200	0	50	0.001
8 LM2T AU201	1	50	0.001
8 LM2T AU202	II	50	0.001
	for selector switches.	1	
8 LM2T AU203	0-1	50	0.001
8 LM2T AU204	11.11	50	0.001
8 LM2T AU205	I-II I-O-II	50 50	0.001

General characteristics

The labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive).

Lovato

Recommended use with LPX AU109 label.
 Sheet with 108 adhesive labels.
 Complete code with required label text.

Accessories and spare parts PLatinüm Ø22mm series



Plastic disk for mushroom head pushbuttons



LPX AU113



LPX AU115



LPX AU110

Order code	Text	Qty per pkg.	Wt
		n°	[kg]
LPX AU113	EMERGENCY STOP Ø90mm/3.5"	10	0.005
LPX AU115	EMERGENCY STOP Ø60mm/2.4"	10	0.003
LPX AU110	Adhesive label EMERGENCY STOP (34.5x65mm/1.36x2.56") for LPC B63/663/664/ 67/68/BL66buttons	12	0.001

General characteristics The disks are made of non-adhesive plastic. Plastic disks cannot be used with LPX AU158 and LPX AU159 protection.





Contact and light elements

PLatinum Ø22mm series

Mounting adapter



LPX AU120





LPX C...



LPX C01SM

```
LPX CO2SM
```



LPX E...

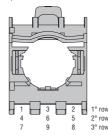


LPX CF01

- 1 Use LPX C10A (EM) or LPX C01 (NC) type only with push-push actuators
- Not suitable for push-push actuators.
- Normally open contact with early-make operation and suitable for push-push actuators. B) Direct (positive) opening action ⊖ in accordance with IEC/EN 60947-5-1.
 In Normally closed contact with late break operation.

Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPX AU120	Mounting adapter	10	0.019

Rear view (reference for element installation)



Order code	Function	Qty per pkg	Wt
		n°	[kg]

Screw termination.

without mounting adapter.					
LPX C100	.3 \.4 NOO	10	0.011		
LPX C10A	.7 ∖.8 EM❷	10	0.011		
LPX CO1⊖	L.1 (⊖ NC❸	10	0.011		
LPX C01D 0 ⊖	L.5 ∕⊖ LB 00	10	0.011		

Screw termination. Without mounting adapter. Auto-monitor contact elements for non-illuminated latch mushroom-head pushbuttons.

LPX CO1SM0⊖	.1 .2 .2	1	0.022
LPX CO2SMO⊖	↔ .3 .1 .1 .1 2NCOO .4 .2 .2	1	0.033
Screw termination.			

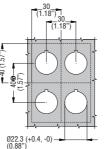
With mounting adapter

with mounting adap			
LPX E100	.3 ∖NO❶	10	0.029
LPX E01⊖	l.¹ ∕₂ ⊖ NC❸	10	0.029

Faston termination. Without mounting adapter

initiout iniouning a	aapton		
LPX CF100	.3 ∖NO❶	10	0.012
LPX CF01 ⊖	.1 ∕.2 ⊖ NC€	10	0.012

Drillings - Minimum recommended distances



6 When using Faston, pitch is 85mm minimum.

Operational characteristics

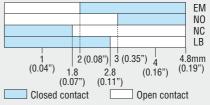
- Any mounting position allowed.
 - All LPX C... types snap onto LPX AU120 mounting adapter:
 - See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch.
 - A maximum of 3 contacts or 2 contacts and 1 LED element (LPX L... mounted in the middle position) can be fixed internally on the cover surface of LPZ control stations
 - A maximum of 2 LPX C...SM contacts can be installed on LPX AU120 adapter exclusively on non-illuminated mushroom-head latch actuators:
 - In pos. 1-3 (on the left side only of LPX AU120; refer to REAR VIEW drawing), one only LPX C01SM or LPX C02SM element can be fitted.
 - One extra LPX...SM can be installed in pos. 4-6 (stacked behind the LPX...SM on the LPX AU120)
 - · With LPX C01SM, a maximum of two contacts LPX C0... or LPX C1... can be fitted on the right side in LPX AU120 pos. 2 and 5, one behind the other.
 - On the internal surface of LPZ control station covers, one only LPX C01SM or LPX C02SM contact can be mounted on LPX AU120 pos. 1 (on the left). With LPX C01SM, one extra element LPX C0... or LPX C1... can be fitted on the right (LPX AU120 pos. 2).
 - No LED element can be used with LPX C...SM types.
 - Maximum tightening torque for screw terminals: 1Nm
 - Ambient conditions • Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C Degree of protection:
 - IP20 for screw termination
 - · IP00 for Faston termination.

General characteristics of contact elements

Wiping effect, dual scraping-oscillating action IEC rated insulation voltage: 690V IEC rated thermal current Ith: 10A Conductivity: 5V 1mA IEC/EN 60947-5-1 designation: A600 Q600.

IEC/	IEC/EN operational characteristics in AC15 category:								
[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
IEC/EN operational characteristics in DC13 category:									
[V]	12	24	1	48	125	250	440	500	600
[A]	3	3		1.5	0.55	0.27	0.15	0.13	0.1
Short-circuit protection fuse: max calibre: 10A gG. Contact resistance: ≤20mΩ. Terminals : Clamp screw with washer. Faston 1x6.35mm or 2x2.8mm.									

Stroke of contact elements



Maximum conductor cross section for screw terminals 1 or 2 2.5mm² or AWG14 cables

Mechanical and electrical endurance

Operating force: ≤0.5kg (auxiliary contacts). Electrical life: 1,000,000 cycles for LPXC10/01/E01/10, LPX C01SM/02SM, LPXCF10/01; 600,000 cycles for I PXC10A/01D

Certifications and compliance Certifications obtained: EAC, cULus, CCC, RINA. Compliant with standard: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.



Contact and light elements

PLatinüm Ø22mm series

Test elements for steady-light LED elements



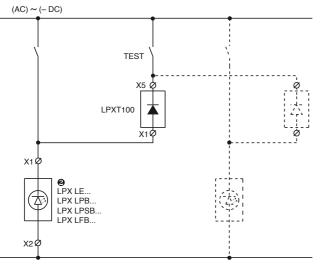
	Decomption	per pkg	
		n°	[kg]
LPX T10000	Use with LED elements in AC/DC, types LPX LE (all), LPX LFB, LPX LPB and LPX LPSB	10	0.011
LPX T101@	Use with LED elements at 85-140VAC for types LPX LFE LPX LPE and LPX LPSE	10	0.011
LPX T102@	Use with LED elements at 185-265VAC for types LPX LFM, LPX LPM and LPX LPSM	10	0.011

Order code Description

Whenever test circuits include illuminated actuators connected with paralleled load, use two LPX T100 for each LED element. Refer to the wiring diagram below.

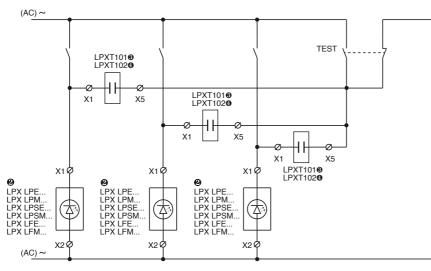
With DC supply only for LPX T100 type, the LED element works at full voltage and brightness while with AC supply for all LPX T... types, the LED element works at half voltage so with reduced brightness level.

For LPX T100 test element



(AC) ~ (+ DC)

For LPX T101 and LPX T102 test elements



6 Use with LPX LFE..., LPX LPE... or LPX LPSE... type.

Use with LPX LFM..., LPX LPM... or LPX LPSM... type.



Operational characteristics

Qtv Wt

- Supply voltage:
- LPX T100 test element:
- 12...30VAC/DC for LPX LEB/LFB/LPB/LPSB...
 85...140VAC/DC for LPX LEE...
- 185...265VAC/DC for LPX LEM.
- LPX T101 test element: 85-140VAC
- LPX T102 test element: 185-265VAC
- For use with LED elements LPX LPBB/LPBE/LPBM... types, contact our Customer Service 1800 252 995 or sales@mechtric.com.au
- Electrical life: 100,000 hours
- Any mounting position allowed
- Snap onto LPX AU120 mounting adapter beside the LED element or stacked behind contact elements; also internally on the LPZ control station cover
- Maximum tightening torque for screw terminals: 1Nm
 Ambient conditions:
- Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protectio: IP20.

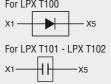
Mounting adapter

Type: LPX AU120. See page 4-19. The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG 12 cables.

Wiring Diargram For LPX T100



Certifications and compliance

Certifications obtained: cULus and EAC; CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.





Qty Wt

Contact and light elements

PLatinum Ø22mm series

Rated supply LED

Order code

LED elements steady light



LPX LP...

Total protection against overvoltages and stray currents in wiring, to reduce of flickering phenomenon and withstand vibrations.



LPX LE...

Simple protection and to withstand

LED elements flashing light



Total protection against overvoltages and stray currents in wiring, to reduce of flickering phenomenon and withstand vibrations

	voltage	colour	per pkg.	VVL
	[V]		n°	[kg]
Steady light, screw ter				
Supplied without mou	12-30V	Green	10	0.016
LPX LP B4	AC/DC	Red	10	0.016
LPX LP B5		Yellow	10	0.016
LPX LP B6		Blue	10	0.010
LPX LP B8		White	10	0.016
LPX LP E3	85-140V	Green	10	0.016
LPX LP E4	AC	Red	10	0.010
LPX LP E5		Yellow	10	0.010
LPX LP E6	-	Blue	10	0.010
LPX LP E8		White	10	0.016
LPX LP M3	185-265V	Green	10	0.016
LPX LP M4	AC	Red	10	0.016
LPX LP M5		Yellow	10	0.016
LPX LP M6		Blue	10	0.016
LPX LP M8	1	White	10	0.016
<u></u>		1.55		14/1
Order code	Rated supply voltage	LED colour	Qty per	Wt
	voltage	ooloui	pkg.	
	[V]		n°	[kg]
Steady light, screw ter				
Supplied without mou		-		
LPX LE B3	12-30V AC/DC	Green	10	0.016
LPX LE B4	A0/D0	Red	10	0.016
LPX LE B5		Yellow	10	0.016
LPX LE B6		Blue	10	0.016
LPX LE B8	05 1401/	White	10	0.016
LPX LE E3	85-140V AC/DC	Green Red	10 10	0.016
LPX LE E4		Yellow	10	0.016
LPX LE ES		Blue	10	0.016
LPX LE E8		White	10	0.010
LPX LE M3	185-265V	Green	10	0.010
LPX LE M4	AC/DC	Red	10	0.010
LPX LE M5		Yellow	10	0.010
LPX LE M6		Blue	10	0.010
LPX LE M8		White	10	0.016
Order code	Rated supply voltage	LED colour	Qty per	Wt
			pkg.	
	[V]		n°	[kg]

Flashing light, screw termination.

Supplied without mou	nting adapter.			
LPX LF B3	18-30V AC/DC	Green	10	0.016
LPX LF B4		Red	10	0.016
LPX LF B5		Yellow	10	0.016
LPX LF B6		Blue	10	0.016
LPX LF B8		White	10	0.016
LPX LF E3	85-140V AC	Green	10	0.016
LPX LF E4		Red	10	0.016
LPX LF E5		Yellow	10	0.016
LPX LF E6		Blue	10	0.016
LPX LF E8		White	10	0.016
LPX LF M3	185-265V	Green	10	0.016
LPX LF M4	AC	Red	10	0.016
LPX LF M5		Yellow	10	0.016
LPX LF M6		Blue	10	0.016
LPX LF M8		White	10	0.016

Operational characteristics

- rated frequency: 50-60Hz
- Rated supply voltage: LPX LP... with steady light: 12...30VAC/DC; 85...140VAC; 185...265VAC
- LPX LE... with steady light: 12...30VAC/DC; 85...140VAC/DC; 185...265VAC/DC
- LPX LF... flashing light: 18...30VAC/DC; 85...140VAC, 185...265VAC
- Maximum consumption for:
- LPX LP... steady light and LPX LF... flashing light: 17mA-0,50W (12...30VAC/DC); 20mA-0,40W (85...140VAC); 18mA-0,55W (185...265VAC)
- LPX LE... steady light: 11mA-0,33W (12...30VAC/DC); 5mA-0,72W (85...140VAC/DC); 3mA-0,67W (185...265VAC/DC)
- Total protection for LPX LP... and LPX LF... types: · Against overvoltages
- · Against stray currents in wiring
- To reduce flickering phenomenon
- · To withstand vibrations
- minimum activation voltage:
 - LPX LP... steady light: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
 LPX LE... steady light: 4V-0,5mA (12...30VAC/DC);
- 15V-0,4mA (85...140VAC/DC); 35V-0,3mA (185...265VAC/DC)
- (185...2050AC/DC)
 LPXLF... flashing light: 5V-1,5mA (18...30VAC/DC); 13V-1,5mA (85...140VAC); 25V-1,5mA (185...265VAC)
 Simple protection for LPX LE... types
 Against overvoltages
 Ta with based divisions

- To withstand vibrations
- Electrical life: 100,000 hours
 Snap onto LPX AU120 mounting adapter in the middle position for each illuminated actuator, also internally on the LPZ control station cover
- No other element can be stacked behind LED elements
- Any mounting position allowed
- _ Maximum tightening torque: 1Nm
- Ambient conditions:
- Operating temperature: -25...+70°C (-25...+60°C for LPX LE...)
- Storage temperature: -40...+85°C
- Degree of protection: IP20

Mounting adapter

See page 4-19. Type: LPX AU120. The mounting adapter directly snaps onto the actuator

fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram

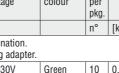


Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1. IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



PAGE 4-21 Perth (08) 9248 0410



Order code

Contact and light elements PLatinum Ø22mm series

Contact elements with spring-clamp terminals



LPX CS10

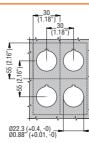
LED elements steady light with spring-clamp terminals

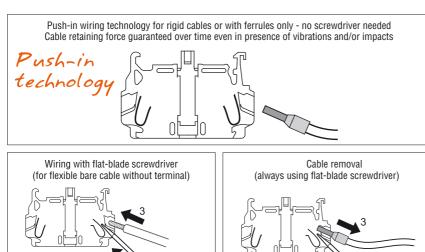


Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand

Drillings - Minimum recommended distances

vibrations.





		n°	[kg]
Spring-clamp termir Without mounting a			
LPX CS100	.3 \.4 NOO	10	0.010
LPX CS01⊖		10	0.010

Q.ty Wt

per , pkg

Function

 Not suitable for push-push actuators. ${}^{\it O}$ Direct (positive) opening action \ominus in accordance with IEC/EN 60947-5-1

Order code	Rated supply voltage	LED colour	Q.ty per pkg	Wt
	[V]		n°	[kg]

Steady light, with spring-clamp termination.

Without mounting adapter.							
LPX LPS B3	12-30VAC/DC	Green	10	0.015			
LPX LPS B4		Red	10	0.015			
LPX LPS B5		Yellow	10	0.015			
LPX LPS B6		Blue	10	0.015			
LPX LPS B8		White	10	0.015			
LPX LPS E3	85-140VAC	Green	10	0,015			
LPX LPS E4		Red	10	0.015			
LPX LPS E5		Yellow	10	0.015			
LPX LPS E6		Blue	10	0.015			
LPX LPS E8		White	10	0.015			
LPX LPS M3	185-265VAC	Green	10	0.015			
LPX LPS M4		Red	10	0.015			
LPX LPS M5		Yellow	10	0.015			
LPX LPS M6		Blue	10	0.015			
LPX LPS M8		White	10	0.015			

Any mounting position allowed Elements snap onto LPX AU120 adapter, also internally on

Operational characteristics

- LPZ control station cover with maximum of 3 LPX CS... contact or 2 LPX CS... contact and 1 LPX LPS... LED elements (in middle position) per actuator
- No other element can be stacked behind LED elements - See the combinations given under "Contact elements"
- in the right-hand column for each type of pushbutton and selector switch
- Suitable for applications with vibration and/or impact work conditions; cable retaining force guaranteed over time in these conditions
- For use with the test elements, see page 4-20
- Wiring also possible after installation with stacked
- contacts
- Ambient conditions:
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection: IP20.

Mounting adapter

See page 4-19. Type : LPX AU120. The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

General characteristics

CONTACT ELEMENTS

Wiping action and dual scaping-oscillating effect IEC rated insulation voltage: 690V IEC rated thermal current Ith: 10A

Conductivity: 1mA 5V

IEC/EN 60947-5-1 designation: A600 Q600.

IEC/EN operational characteristics in AC15 category:								
[V] 12 24 48 120 240 400 480 500	600							
[A] 6 6 6 6 3 1.9 1.5 1.4	1.2							
IEC/EN operational characteristics in DC13 category:								

[V]	12	24	48	125	250	440	500	600	
				0.55					

3 1.5 0.55 0.27 0.15 0.13 0.1 [A] | 3 Short circuit protection fuse: max calibre: 10A gG. Contact resistance: ≤20mΩ. Terminals: Spring clamps.

Stroke of contact eleme

Shoke of contact crements							
			NO				
			NC				
1 1	8 3	3 4	4.8mm				
(0.03") (0.0	7") (0.1	1") (0.16") (0.19")				
Closed con	itact	Open c	ontact				

Mechanical and electrical endurance of contact elements Opening force: ≤0,5kg

Electrical life: 1.000.000 cycles for LPX CS10 and LPX CS01. LED ELEMENTS

- rated frequency: 50-60Hz
- Supply voltage: 12...30VAC/DC; 85...140VAC; 185...265VAC
- Maximum consumption: 17mA-0,50W (12...30VAC/DC);
- 20mA-0,40W (85...140VAC); 18mA-0,55W (185...265VAC)
- Total protection:
- · Against overvoltages
- · Against stray currents in wiring
- · To reduce flickering phenomenon
- · To withstand vibrations
- minimum activation voltage:
- 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
- Electrical life: 100,000 hours

Wiring diagram for LED elements



Maximum conductor cross section

1 or 2 2.5mm² or AWG14 cables. For 2.5mm² section, use rounded cable terminal with metal end at least 10mm

Certifications and compliance

Certifications obtained: EAC, cULus, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



PAGE 4-22





Contact and light elements

PLatinum Ø22mm series

Contact elements, base mount on LPZ control stations



LPX CB...

LED elements, steady light base mount on LPZ control stations



LPX LPB...

Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand vibrations.

Order code	Function	Q.ty per pkg	Wt		
		n°	[kg]		
Screw termination. Direct snap-in mounting on LPZ control station base.					
LPX CB100		10	0.012		
LPX CB01 \ominus		10	0.012		

Not suitable for push-push actuators.
 Ø Direct opening operation → in accordance with IEC/EN 60947-5-1.

 \ominus NCØ

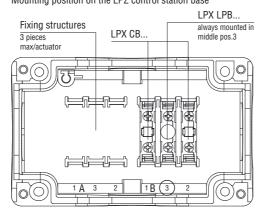
Order code	Rated supply voltage	LED color	Qty per pkg.	Wt
	[V]		n°	[kg]
Screw termination				

Steady light.

Direct snap-on mounting on LPZ... control station base.

Briter thap on meaning on Er 2 control station base.				
1230V	Green	10	0.016	
AC/DC	Red	10	0.016	
	Yellow	10	0.016	
	Blue	10	0.016	
	White	10	0.016	
85140V	Green	10	0.016	
AC	Red	10	0.016	
	Yellow	10	0.016	
	Blue	10	0.016	
	White	10	0.016	
185265V	Green	10	0.016	
AC	Red	10	0.016	
	Yellow	10	0.016	
	Blue	10	0.016	
	White	10	0.016	
	1230V AC/DC 85140V AC	1230V Green AC/DC Red Yellow Blue White S5140V AC Green AC Red Yellow Blue White Red Yellow Blue Blue White 185265V Green AC Yellow Blue White	1230V Green 10 Red 10 Yellow 10 Blue 10 White 10 85140V Green 10 AC Green 10 Vellow 10 Ned 10 Blue 10 Ned 10 AC Green 10 Vellow 10 Blue 10 Blue 10 White 10 AC Green 10 Ned AC IO Ned 10 Blue 10 Blue 10 Blue 10 Blue 10	

Mounting position on the LPZ control station base



Operational characteristics

- Any mounting position allowed
- Snap mount into fixing structures of LPZ control station base _
- Maximum of 3 LPX CB... contact or 2 LPX CB... contact and 1 LPX LPB... LED elements (in middle pos. 3) for each actuator of LPZ control stations
- See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- For use with test elements, contact our Customer Service 1800 252 995 or sales@mechtric.com.au
- Maximum tightening torque for screw terminals: 1Nm _ Ambient conditions:
 - Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protectione: IP20.

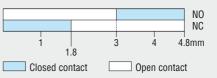
General characteristics

CONTACT ELEMENTS Wiping action and dual scaping-oscillating effect IEC rated insulation voltage: 690V IEC rated thermal current Ith: 10A Conductivity: 5V 1mA IEC/EN 60947-5-1 designation: A600 Q600. IEC/EN operational characteristics in AC15 category:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
IEC/EN operational characteristics in DC13 category:									
[V]	12	2	4	48	125	250	440	500	600
[A]	3	3	}	1.5	0.55	0.27	0.15	0.13	0.1
Short circuit protection fuse: max calibre: 10A gG Contact resistance: $\leq 20m\Omega$									

Terminals: Clamp screw and washer.

Stroke of contact elements



Mechanical and electrical endurance of contact elements Opening force: ≤0,5kg

Electrical life: 1,000,000 cycles for LPX CB10 and LPX CB01.

- LED ELEMENTS
- rated frequency: 50...60Hz
- Supply voltage: 12...30VAC/DC; 85...140VAC; 185...265VAC
- Maximum consumption: 17mA-0,50W (12...30VAC/DC); 20mA-0,40W (85...140VAC); 18mA-0,55W (185...265VAC)
- Total protection:
- Against overvoltages
- Against stray currents in wiring
 To reduce flickering phenomenon
- To withstand vibrations
- minimum activation voltage: steady light LPX LPB.....: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
 Electrical life: 100,000 hours.

Wiring diagram for LED elements



Maximum conductor cross section 1 or 2 2.5mm² or AWG14 cables.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Plastic control stations

PLatinum series

Without actuators



LPZ P1 A5



LPZ P2 A5

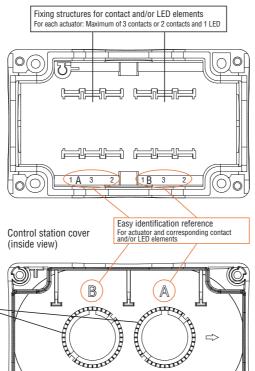


LPZ P3 A8

Anti-loosening action Anti-rotation indents to extend fixing ring gripping over time

	Order code	Description	Cover colour	Q.ty per pkg	Wt
				n°	[kg]
	LPZ P1 A5	For 1 actuator	Yellow	1	0.107
	LPZ P1 A8	For 1 actuator	Grey	1	0.107
	LPZ P2 A5	For 2 actuators	Yellow	1	0.152
	LPZ P2 A8	For 2 actuators	Grey	1	0.152
	LPZ P3 A8	For 3 actuators	Grey	1	0.187
	LPZ P4 A8	For 4 actuators	Grey	1	0.200
	LPZ P5 A8	For 5 actuators	Grey	1	0.240
	LPZ P6 A8	For 6 actuators	Grey	1	0.290

Control station base



With one actuator



LPZ P1 B8 02



LPZ P1 B5 03

Order code	Control station description	Actuator description	Q.ty per pkg	Wt			
			n°	[kg]			
LPZ P1 B8 01	Grey, 1 way LPZ P1 A8	Mushroom-head button LPC B6744 with STOP legend	1	0.150			
LPZ P1 B8 02	Grey, 1 way LPZ P1 A8	Mushroom-head button LPC B6344 with STOP legend	1	0.135			
LPZ P1 B5 02	Yellow, 1 way LPZ P1 A5	Mushroom-head button LPC B6344	1	0.135			
LPZ P1 B5 030	Yellow, 1 way LPZ P1 A5	Mushroom-head button LPC B6644	1	0.150			
1 Varaian with rad amorganay aton, turn to release and vallage asymptot							

1 Version with red emergency stop, turn to release and yellow cover to comply with ISO13850

Mechtric

General characteristics

CONTROL STATIONS WITHOUT ACTUATOR 1 to 6 ways

- Compact dimensions _
- Easy wiring for base-mount contact and LED elements; possible use of screw and spring-clamp terminal contact or LED elements on the inside surface of the cover using LPX AU120 mounting adapter
- Numerous cable entries

CONTROL STATIONS WITH ACTUATOR Standard supplied with actuator, label holder and STOP legend label excluding types with yellow cover, and one base-mount NC contact.

Operational characteristics

- Cable entry:
- LPZ P1... knockouts: M16/PG11 (1 at rear and 1 on left side)
 - M20/M25/PG13,5/PG16 (1 each on top and
 - bottom)
- LPZ P2... knockouts:
- M16/PG11 (2 at rear)
- M20/PG13,5 (1 on each side)
- M20/M25/PG13,5/PG16 (1 each on top and bottom)
- LPZ P3/P4/P5/P6 A8 knockouts:
- M16/PG11 (2 at rear)
 M20/PG13,5 (2 on each side)
- M20/M25/PG13,5/PG16 (1 each on top and bottom)
- Any mounting position allowed
- Tightening torque of cover screws Tmax: 1.8Nm Ambient conditions:
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
 Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL: type 1, 2, 3R, 4,4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

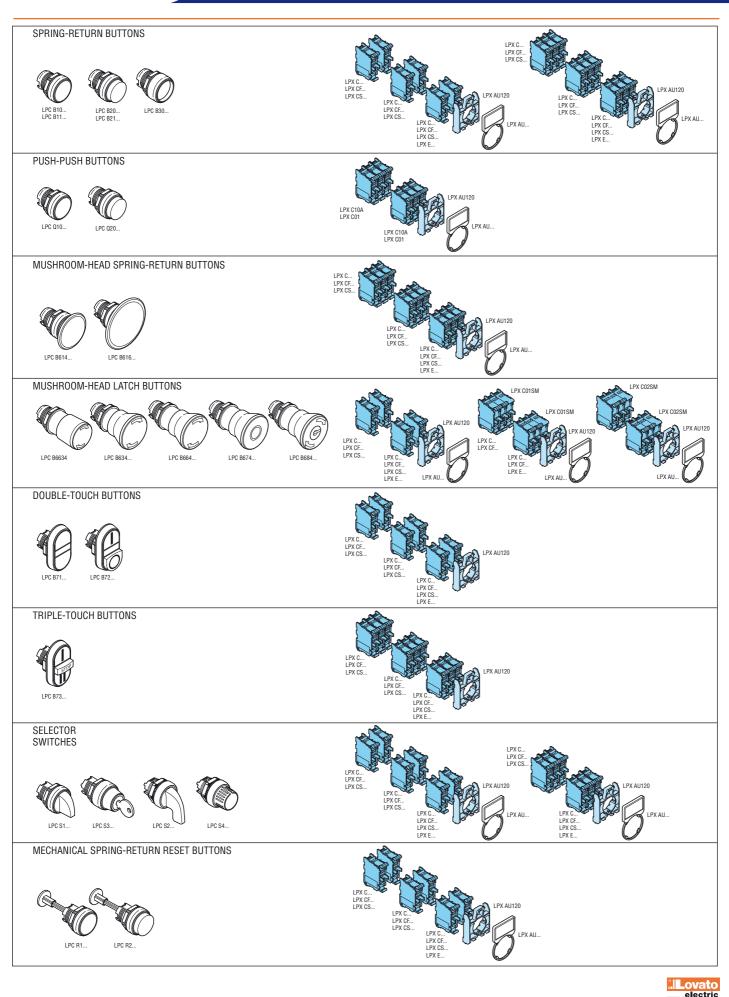
Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN 60947-1,

IEC/EN 60947-5-1, UL508A for types without actuators / UL508 for types complete with actuator, CSA C22.2 n° 14.



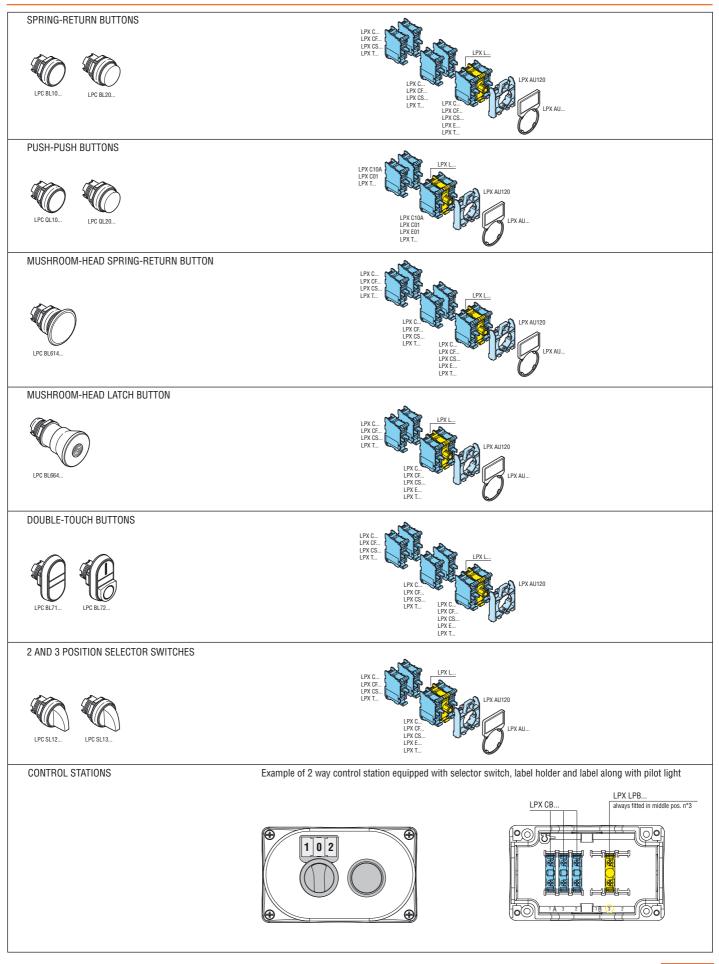


Combinations for pushbuttons and selector switches **PL**atinum Ø22mm series



Combinations for illuminated pushbuttons and selector switches <u>PLatinum Ø22mm</u> series







Pushbuttons and selector switches

8 LM Ø22mm metal series

Push-button actuators, spring return



8 LM2T B10...



8 LM2T B20...



Push-button actuators, spring return, with symbol





Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting adapter). Spring r	eturn.	
8 LM2T B102	Black	10	0.033
8 LM2T B103	Green	10	0.033
8 LM2T B104	Red	10	0.033
8 LM2T B105	Yellow	10	0.033
8 LM2T B106	Blue	10	0.033
8 LM2T B108	White	10	0.033
Extended (without	it mounting adapter). Spri	ng return.	
8 LM2T B202	Black	10	0.035
8 LM2T B203	Green	10	0.035
8 LM2T B204	Red	10	0.035
8 LM2T B205	Yellow	10	0.035
8 LM2T B206	Blue	10	0.035
8 LM2T B208	White	10	0.035
Shrouded (witho	ut mounting adapter). Spr	ing return.	
8 LM2T B302	Black	10	0.035
8 LM2T B303	Green	10	0.035
8 LM2T B304	Red	10	0.035
8 LM2T B305	Yellow	10	0.035
8 LM2T B306	Blue	10	0.035
8 LM2T B308	White	10	0.035

Order code	Symbol	Colour	Qty per pkg	Wt		
			n°	[kg]		
Flush (without mounting adapter). Spring return.						
8 LM2T B1102	0	Black	10	0.033		
8 LM2T B1104		Red	10	0.033		
8 LM2T B1113	Ι	Green	10	0.033		
8 LM2T B1118		White	10	0.033		
8 LM2T B1123	II	Green	10	0.033		
8 LM2T B1128		White	10	0.033		
8 LM2T B1132	STOP	Black	10	0.033		
8 LM2T B1134		Red	10	0.033		
8 LM2T B1142		Black	10	0.033		
8 LM2T B1148	— 0	White	10	0.033		
8 LM2T B1152	10	Black	10	0.033		
8 LM2T B1158		White	10	0.033		
8 LM2T B1163	START	Green	10	0.033		
8 LM2T B1168		White	10	0.033		
8 LM2T B1176	R	Blue	10	0.033		
8 LM2T B1178		White	10	0.033		
8 LM2T B1196	RESET	Blue	10	0.033		
8 LM2T B1502		Black	10	0.033		
8 LM2T B1512	→ ←	Black	10	0.033		
Extended (withou	t mounting ad	apter). Spri	ng return.			
8 LM2T B2102	0	Black	10	0.035		
8 LM2T B2104		Red	10	0.035		
8 LM2T B2132	STOP	Black	10	0.035		
8 LM2T B2134		Red	10	0.035		
A A A A A A A A A A	La consella de la dise	An uimha nu lad				

• Arrow symbol can be used to indicate right or left.

Arrow symbol can be used to indicate up or down.

Operational characteristics

- Ambient conditions:
 Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
 Per IEC/EN: IP65
 - Per UL: type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8kg (actuator). Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 4-35. Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

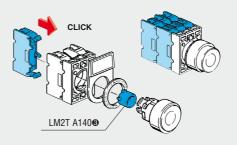
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts

See page 4-35. Type:

LM2T C10 (1NO) LM2T CF10 (1NO Faston) LM2T C10A (EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter. Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 at the centre and 2 on the right. To mount the auxiliary contacts in the centre position, use the accessory: LM2T A140 (see page 4-38).



8 The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.



Pushbuttons and selector switches 8 LM Ø22mm metal series

Push-push button actuators





Mushroom head

push-button actuators

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without moun	ting adapter). Push	on-push off	
8 LM2T Q1020	Black	10	0.033
8 LM2T Q1030	Green	10	0.033
8 LM2T Q1040	Red	10	0.033
8 LM2T Q1050	Yellow	10	0.033
8 LM2T Q1060	Blue	10	0.033
8 LM2T Q1080	White	10	0.033
Extended (without mounting adapter). Push on-push off.			
8 LM2T Q2020	Black	10	0.035
8 LM2T Q2030	Green	10	0.035
8 LM2T Q2040	Red	10	0.035
8 LM2T Q2050	Yellow	10	0.035
8 LM2T Q2060	Blue	10	0.035
8 LM2T Q2080	White	10	0.035
I loo the early make type	LMOT C10A only		

Use the early-make type, LM2T C10A only. No normally open contact element, LM2T C10, must be used with this type of button actuators.

A maximum of 2 contact elements can be mounted only

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Spring return. Ø 40n (without mounting ad			
8 LM2T B6142	Black	10	0.037
8 LM2T B6143	Green	10	0.037
8 LM2T B6144	Red	10	0.037
8 LM2T B6145	Yellow	10	0.037
8 LM2T B6146	Blue	10	0.037
Spring return. Ø 60n (without mounting ad			
8 LM2T B6162	Black	10	0.043
8 LM2T B6163	Green	10	0.043
8 LM2T B6164	Red	10	0.043
8 LM2T B6165	Yellow	10	0.043
8 LM2T B6166	Blue	10	0.043
Latch, pull to release (without mounting ad			
8 LM2T B6242	Black	10	0.105
8 LM2T B6244	Red	10	0.105
Latch, turn to release (without mounting ad			
8 LM2T B6342	Black	10	0.054
8 LM2T B6344	Red	10	0.054
Latch, turn key to rel (without mounting ad			
8 LM2T B6542	Black	10	0.091
8 LM2T B6542G@		1	0.091
8 LM2T B6544	Red	10	0.091
8 LM2T B6544G❷		1	0.091
Latch, turn to release Ø 40mm (without mo		18) compliar	nt.
8 LM2T B6644	Red	10	0.087

Versions with different key codes.

Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510. Example of complete code: 8 LM2T B6542G505.



Operational characteristics

- Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed - Degree of protection:
- - Per IEC/EN: IP65 for push-push and LM2T B654 actuators; IP66 for others.
 - Per UL: type 1, 2, 3R, 4, 4X, 12, 12K except for 8 LM2T B616 which is type 1, 2, 3R, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate

Mechanical endurance

Operating force: 0.8kg (actuator). Mechanical life:

- Push-push actuators: 500,000 cycles
- Mushroom head buttons: 1,000,000 cycles
- Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

See page 4-35

Type: LM2T AU120.

Type:

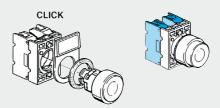
Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts for push-push button actuators See page 4-35.

LM2T C10A (EM)

LM2T C01 (1NC) Auxiliary contacts snap onto the mounting adapter. Up to 2 auxiliary contacts can be fitted on the mounting adapter: 1 each on the right and left.

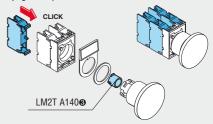


Auxiliary contacts for mushroom-head button actuators Type:

- LM2T C10 (1NO) LM2T CF10 (1NO Faston) LM2T C10A (EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter. Up to 4 auxiliary contacts can be fitted on the mounting adapter with LM2T B624... and LM2T B6644 types: 2 on the right and 2 on the left only.

Up to 6 auxiliary contacts can be fitted on the mounting adapter with all the other types: 2 on the left, 2 at the centre 2 on the right. To mount the auxiliary contacts in the centre position, use the accessory LM2T A140 (see page 4-38).



8 The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14; also IEC/EN 60947-5-5 for LM2T B6644.





8 LM2T B614... 8 LM2T B616...



8 LM2T B624...



8 LM2T B634...



8 LM2T B654...



8 LM2T B6644...

T		1	
		1	



Pushbuttons and selector switches

8 LM Ø22mm metal series

Mechani	ical	reset
buttons,	CO	mplete
unit, spr	ing	return



8 LM2T R1196

Double-touch actuators, spring return



8 LM2T B71...



Triple-touch actuators, spring return



Order code	Colour	Qty per pkg	Wt		
		n°	[kg]		
	Flush (5.2mm stroke). Spring return. Adjustable length 0-140mm max.				
8 LM2T R1002	Black	10	0.065		
8 LM2T R1003	Green	10	0.065		
8 LM2T R1004	Red	10	0.065		
8 LM2T R1006	Blue	10	0.065		
8 LM2T R11960	Blue (RESET)	10	0.065		
Extended (5.2mm stroke). Spring return. Adjustable length 0-140mm max.					
8 LM2T R2004	Red	10	0.067		
Complete with mounting	adapter as well as the rod.	•			

With "RESET" caption on actuator.

Order code	Colour	Symbols	Qty per pkg	Wt
			n°	[kg]
Two flush push-bu Both spring return		ıt mounting	g adapter)	
8 LM2T B7112	Black/Red	none	5	0.04
8 LM2T B7113	Green/Red	none	5	0.04
8 LM2T B7114	White/Black	none	5	0:04
8 LM2T B7122	Black/Red	I-0	5	0.04
8 LM2T B7123	Green/Red	I-O	5	0.04
8 LM2T B7124	White/Black	I-O	5	0.04
8 LM2T B7133	Green/Red	Start/Stop	5	0.04
One extended and mounting adapter			(without	
8 LM2T B7212	Black/Red	none	5	0.04
8 LM2T B7213	Green/Red	none	5	0.04
8 LM2T B7214	White/Black	none	5	0.04
8 LM2T B7222	Black/Red	I-O	5	0.04
8 LM2T B7223	Green/Red	I-O	5	0.04
	White /Disale	1-0	5	0.04
8 LM2T B7224	White/Black	10	•	0.0.

Order code	Symbols	Qty per pkg	Wt
		n°	[kg]
	and one middle extend adapter). All spring ret		
8 LM2T B7345		5	0.044
	STOP		
	H		
8 LM2T B7355	↑	5	0.044
	STOP		
	•		
8 LM2T B7365	→	5	0.044
	STOP		
			
8 LM2T B7375		5	0.044
	STOP		

Operational characteristics

- Ambient conditions:
- Operating temperature: -25...+60°C • Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
- Per IEC/EN: IP65 for mechanical reset buttons; IP40 for double and triple-touch actuators.
- Per UL: type 1, 2, 3R, 4, 4X, 12, 12K for 8 LM2T R...; for 8 LM2T B71... and
- 8 LM2T B72... type 1.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8kg (actuator) Mechanical life: 1,000,000 cycles

Mounting adapter

Type:

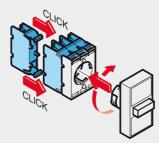
See page 4-35. Type: LM2T AU120. Actuators latch onto the mounting adapter by simple rotation. The adapter is fixed to the mounting surface by means

of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts for touch actuators See page 4

4-35.	
	LM2T C10 (1NO)
	LM2T CF10 (1NO Faston)
	LM2T C10A (EM)
	LM2T C01 (1NC)
	LM2T CF01 (1NC Faston)
	LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.



DOUBLE-TOUCH ACTUATORS

Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right.

TRIPLE-TOUCH ACTUATORS

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 in the centre and 2 on the right.

Certifications and compliance Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.



Pushbuttons and selector switches 8 LM Ø22mm metal series



Selector actuators knob	Order code	Type of positions	Qty per pkg	Wt
			n°	[kg]
	2 position (without	t mounting adapter)).	
	8 LM2T \$120		10	0.049
	8 LM2T \$121	\sim	10	0.049
	3 position (withou	it mounting adapter	r).	
	8 LM2T \$130	\checkmark	10	0.049
	8 LM2T \$131		10	0.049
8 LM2T S1	8 LM2T \$132	$\langle \cdot \rangle$	10	0.049
	8 LM2T \$133	$\sqrt{2}$	10	0.049
Selector actuators lever	Order code	Type of	Qty	Wt
		positions	per pkg	
			n°	[kg]
State of the second sec	2 position (without	t mounting adapter)).	
	8 LM2T \$220	\sim	10	0.050
	8 LM2T \$221	V	10	0.050
	3 position (withou	it mounting adapter	r).	
	8 LM2T \$230	\checkmark	10	0.050
	8 LM2T S231		10	0.050

8 LM2T S232

8 LM2T S233

Selector actuators key

8 LM2T S2...

8 LM2T S3...

Order code	Type of positions	Qty per pkg	Wt		
		n°	[kg]		
2 position (without r	nounting adapter)				
8 LM2T \$320	•	10	0.079		
8 LM2T \$320GO		1	0.079		
8 LM2T \$321	• •	10	0.079		
8 LM2T \$321GO		1	0.079		
8 LM2T \$340	•	10	0.079		
8 LM2T \$340GO		1	0.079		
3 position (without mounting adapter).					
8 LM2T \$330	•	10	0.080		
8 LM2T \$330GO	\bigvee	1	0.080		
8 LM2T \$331	• • •	10	0.080		
8 LM2T \$331GO		1	0.080		
8 LM2T \$332@	•	10	0.080		
8 LM2T \$332GO@	\vee	1	0.080		
8 LM2T \$333@		10	0.080		
8 LM2T \$333GOO		1	0.080		
8 LM2T \$350	C.	10	0.080		
8 LM2T \$350GO		1	0.080		
8 LM2T \$360	. • .	10	0.080		
8 LM2T \$360GO		1	0.080		
8 LM2T \$370@	(†)	10	0.080		
8 LM2T \$370G@@		1	0.080		
8 LM2T \$380@	<u> </u>	10	0.080		
8 LM2T \$380G@@		1	0.080		
8 LM2T \$390@	•	10	0.080		
8 LM2T \$390G@@	N.C.	1	0.080		

10

10

0.050

0.050

Versions with different key codes. Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510. Example of complete code: 8 LM2T S320G505.

e Available only on specific request.

Operational characteristics

- Ambient conditions: Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
- Per IEC/EN: IP65
 - Per UL: type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

See page 4-35. Type: LM2T AU120. Actuators latch onto the mounting adapter by simple rotation. The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts

See page 4-35. Type:

LM2T C10 (1NO) LM2T CF10 (1NO Faston) LM2T C10A (EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter. Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right. For more, contact our Customer Service 1800 252 995 or sales@mechtric.com.au for advice.



Positions

Stay put position. \backslash /

- Spring return position.
- Key extraction position.

Angles 2 position



Special versions

Versions with coloured keys are available upon request. Contact our Customer Service 1800 252 995 or sales@mechtric.com.au

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.





Pushbuttons and selector switches

.

.....

8 LM Ø22mm metal series

Illuminated button actuators, spring return





8 LM2T BL20...

Illuminated button actuators push-push



8 LM2T QL10...



8 LM2T QL20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (with side vis (without mounting	sibility). Spring return. adapter).		
8 LM2T BL103	Green	10	0.033
8 LM2T BL104	Red	10	0.033
8 LM2T BL105	Yellow	10	0.033
8 LM2T BL106	Blue	10	0.033
8 LM2T BL107	Transparent	10	0.033
Extended (without	mounting adapter). Sprir	ng return.	
8 LM2T BL203	Green	10	0.035
8 LM2T BL204	Red	10	0.035
8 LM2T BL205	Yellow	10	0.035
8 LM2T BL206	Blue	10	0.035
8 LM2T BL207	Transparent	10	0.035

. .

- ·

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without mo	unting adapter). Push o	n-push off.	
8 LM2T QL1030	Green	10	0.033
8 LM2T QL1040	Red	10	0.033
8 LM2T QL1050	Yellow	10	0.033
8 LM2T QL1060	Blue	10	0.033
8 LM2T QL1070	Transparent	10	0.033
Extended (without	mounting adapter). Pus	sh on-push	off.
8 LM2T QL2030	Green	10	0.035
8 LM2T QL2040	Red	10	0.035
8 LM2T QL2050	Yellow	10	0.035
8 LM2T QL2060	Blue	10	0.035
8 LM2T QL2070	Transparent	10	0.035

Use only the early-make type, LM2T C10A

No normally open contact element, LM2T C10, must be used with this type of button actuators. A maximum of 2 contact elements can be mounted only.

Illuminated mushroom head button actuators





Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Spring return. Ø 4	Omm (without mounting	adapter). @)
8 LM2T BL6143	Green	10	0.043
8 LM2T BL6144	Red	10	0.043
8 LM2T BL6145	Yellow	10	0.043
8 LM2T BL6146	Blue	10	0.043
8 LM2T BL6148	White	10	0.043
Latch, pull to relea	se. Ø 40mm (without mo	ounting ada	pter).🛛
8 LM2T BL6243	Green	10	0.105
8 LM2T BL6244	Red	10	0.105
8 LM2T BL6245	Yellow	10	0.105
8 LM2T BL6246	Blue	10	0.105
8 LM2T BL6248	White	10	0.105
Output Provide the state of			

Ine number of auxiliary contacts to be mounted is given in the s notes.

6 A maximum of 2 auxiliary contacts can be mounted only.

Operational characteristics

- Ambient conditions: • Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
 - Per IEC/EN: IP65
 Per UL: type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8kg (actuator).

Mechanical life:

- Push-push actuators: 500,000 cycles
- Mushroom head latch buttons: 300,000 cycles
- All others: 1,000,000 cycles.

Mounting adapter

See page 4-35.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts for illuminated push-push actuators: See page 4-35 to 4-37.

Type: LM2T C10A (EM)

LM2T C01 (1NC)

Auxiliary contacts snap onto the mounting adapter. Up to 2 auxiliary contacts can be fitted on the mounting adapter in a row, 1 each on the right and left, along with the lamp-holder in the centre position, of which LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L... or LM2T M... (see page 117). With lamp-holder LM2T XL..., LM2T YL..., LM2T FL... or

LM2T GL..., one auxiliary contact can be mounted only.

Auxiliary contacts for illuminated button or mushroom-head actuators:

See page 4-35.

Type:

- LM2T C10 (1NO) LM2T CF10 (1NO Faston)
- LM2T C10A (EM)
- LM2T C01 (1NC)
- LM2T CF01 (1NC Faston)

LM2T C01D (LB) Auxiliary contacts snap onto the mounting adapter. On LM2T BL1, LM2T BL2 or LM2T BL61 actuators, the following can be fitted on the mounting adapter:

- Up to 4 contacts, 2 each on the left and right, when one of the following lamp-holders is used: LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230,
- LM2T L or LM2T M (see page 4-35 to 4-37).
 Up to 2 contacts, one on top of the other of the same type only, when one of the following lamp-holders is used LM2T XL, LM2T YL, LM2T FL or LM2T GL (see page 4-36 to 4-37).

On LM2T BL62... actuator, the following can be fitted on the mounting adapter:

- Up to 2 contacts, 1 each on the right and left, when one of the following lamp-holders is used LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L or LM2T M (see page 4-35 to 4-37)
- Up to 2 contacts, one on top of the other of the same type only, when one of the following lamp-holders is used: LM2T XL, LM2T YL, LM2T FL or LM2T GL (see page 4-35 to 4-37).

Lamp-holder elements See page 4-35 to 4-37. Bulbs

Maximum recommended power: 1.2W. See page 4-38.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.



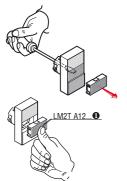


Pushbuttons and selector switches 8 LM Ø22mm metal series

Double touch actuators, spring return, white indicator



8 LM2T BL711... 8 LM2T BL721...



The actuator is standard supplied with a white diffuser Coloured diffusers I M2T A12 can be purchased separately. Refer to page 4-38.

Illuminated selector actuators



8 LM2T SL1...

Order code	Colour	Symbol	Qty per pkg	Wt		
			n°	[kg]		
	Two flush push-buttons (without mounting adapter). Both spring return.					
8 LM2T BL7112	Black/Red	none	5	0.044		
8 LM2T BL7113	Green/Red	none	5	0.044		
8 LM2T BL7114	White/Black	none	5	0.044		
8 LM2T BL7122	Black/Red	I-O	5	0.044		
8 LM2T BL7123	Green/Red	I-O	5	0.044		
8 LM2T BL7124	White/Black	I-0	5	0.044		

8 LM2T BL7133 Green/Red Start/Stop 5 0.044 One extended and one flush push-buttons (without mounting adapter).

Both	spring	retur	n.

8 LM2T BL7212	Black/Red	none	5	0.044
8 LM2T BL7213	Green/Red	none	5	0.044
8 LM2T BL7214	White/Black	none	5	0.044
8 LM2T BL7222	Black/Red	I-O	5	0.044
8 LM2T BL7223	Green/Red	I-O	5	0.044
8 LM2T BL7224	White/Black	I-O	5	0.044
8 LM2T BL7233	Green/Red	Start/Stop	5	0.044

Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 position (without	ut mounting ada	apter).		
8 LM2T SL1203	Green		10	0.025
8 LM2T SL1204	Red	\sim	10	0.025
8 LM2T SL1205	Yellow		10	0.025
8 LM2T SL1206	Blue		10	0.025
8 LM2T SL1208	White		10	0.025
8 LM2T SL1213	Green		10	0.025
8 LM2T SL1214	Red	\sim	10	0.025
8 LM2T SL1215	Yellow		10	0.025
8 LM2T SL1216	Blue		10	0.025
8 LM2T SL1218	White		10	0.025
3 position (witho	ut mounting ada	apter).		
8 LM2T SL1303	Green		10	0.025
8 LM2T SL1304	Red	$ $ \vee $ $	10	0.025
8 LM2T SL1305	Yellow		10	0.025
8 LM2T SL1306	Blue		10	0.025
8 LM2T SL1308	White		10	0.025
8 LM2T SL1313	Green		10	0.025
8 LM2T SL1314	Red		10	0.025
8 LM2T SL1315	Yellow		10	0.025
8 LM2T SL1316	Blue		10	0.025
8 LM2T SL1318	White		10	0.025
8 LM2T SL1323	Green		10	0.025
8 LM2T SL1324	Red		10	0.025
8 LM2T SL1325	Yellow		10	0.025
8 LM2T SL1326	Blue		10	0.025
8 LM2T SL1328	White		10	0.025
8 LM2T SL1333	Green		10	0.025
8 LM2T SL1334	Red		10	0.025
8 LM2T SL1335	Yellow		10	0.025
8 LM2T SL1336	Blue		10	0.025
8 LM2T SL1338	White		10	0.025

Mechtric

Operational characteristics

- Ambient conditions:
 - Operating temperature: -25...+60°C • Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
 - Per IEC/EN: IP65 for selectors;
 - IP40 for double-touch actuators.
 - Per UL: type 1, 2, 3R, 4, 4X, 12, 12K except for 8 LM2T BL71... and 8 LM2T BL72... which are type 1.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8kg (double touch actuator). Mechanical life: 300,000 cycles for selectors; 1,000,000 cycles for double-touch actuators.

Mounting adapter

See page 4-35.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts

See page

Type:

4-00.	
	LM2T C10 (1NO)
	LM2T CF10 (1NO Faston)
	LM2T C10A (EM)
	LM2T C01 (1NC)
	LM2T CF01 (1NC Faston)
	LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

DOUBLE-TOUCH ACTUATORS Up to 4 auxiliary contacts can be fitted on the mounting

adapter: 2 on the left and 2 on the right.

SELECTOR ACTUATORS

On 2-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the following types of lamp-holders are used: LM2T DL400, LM2T VL230, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (See page 4-35 to 4-37).
- Up to 2 auxiliary contacts when the following types of lamp-holders are used: LM2T XL..., LM2T YL...,

LM2T FL... or LM2T GL... (See page 4-35 to 4-37). On 3-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the following types of lamp-holders are used: LM2T DL400, LM2T VL230, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M...
 - (See page 4-35 to 4-37).

NOTE: The following lamp-holders cannot be mounted: LM2T XL..., LM2T YL..., LM2T FL... or LM2T GL...

Selector positions

Stay put position.

Spring return position.

Selector angles 2 position

≻



Lamp-holder elements for selector actuators See page 4-35 to 4-37.

Lamp-holder elements for double-touch actuators Use lamp-holder type LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L... or LM2T M... See page 4-35 to 4-37.

Bulbs

Maximum recommended power: 1.2W. See page 4-36.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.





Pilot lights and potentiometer drives

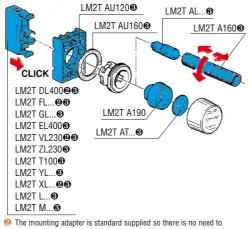
8 LM Ø22mm metal series

Pilot light head



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mounting	g adapter.		
8 LM2T IL103	Green	10	0.024
8 LM2T IL104	Red	10	0.024
8 LM2T IL105	Yellow	10	0.024
8 LM2T IL106	Blue	10	0.024
8 LM2T IL107	Transparent	10	0.024
8 LM2T IL1187	Transparent 🦸 🛛	10	0.024

With symbol indicating dangerous voltage (IEC 60417 5036-a).



purchase it as a separate accessory.

8 Can be purchased separately. Refer to pages 4-38 and 4-39

Potentiometer drive



8 LM2T P100 (complete with mounting adapter)



8 LM2T P110 (complete with mounting adapter)

Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
8 LM2T P100@	With graduated scale	10	0.070
8 LM2T P110@	With variable index	10	0.070

2 Potentiometer not included, for assembly by the user.

Operational characteristics

- Ambient conditions: Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C Any mounting position is allowed
- Degree of protection:
- Per IEC/EN: IP65
 - Per UL: type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mounting adapter

See page 4-35

Type: LM2T AU120. Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Lamp-holder elements

See page 4-36 and 4-37.

Bulbs

Maximum recommended power: 1.2W. See page 4-38.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 n° 14.

Operational characteristics

Suitable for potentiometers with 6-6.3mm diameter shaft

- Minimum 40mm shaft length Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 (warranted by potentiometers with a cylindrical shaft).

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

Standard supply with actuator. Actuators latch onto the mounting adapter by simple rotation. The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Certifications and compliance

Certifications obtained: GOST and CCC Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.



Jovsticks

8 LM Ø22mm metal series

Joysticks



8 LM2T J... without mechanical interlock



8 LM2T J... with mechanical interlock

Accessories



Oldel code	positions	contacts	per pkg	VVL
		NO	n°	[kg]
Without mechani Complete with au		oel holder ex	cluded	
8 LM2T J200	•	2	1	0.082
8 LM2T J201	•	2	1	0.082
8 LM2T J400		4	1	0.104
8 LM2T J401		4	1	0.104

Order code Type of N° auxiliary Oty Wt

With mechanical interlock in centre position. Label holder excluded. Complete with auxiliary contacts.

8 LM2T J210	•	2	1	0.082
8 LM2T J211	•	2	1	0.082
8 LM2T J410		4	1	0.104
8 LM2T J411	-	4	1	0.104

Order code	er code Description		Wt
		n°	[kg]
8 LM2T AU101	2-4 directional holder for adhesive legends	10	0.004

Mechtric

Operational characteristics

- Ambient conditions:
- Operating temperature: -25...+60°C • Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
- · IP20 for contact elements
- On front: • Per IEC/EN: IP65
- Per UL: type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal parts whereas plastic parts are made of polyamide and polycarbonate.

The sealing boot is made of NBR rubber.

Mechanical endurance

Mechanical life: 1,000,000 cycles

General characteristics of auxiliary contacts

Self-cleaning with dual effect, scraping and oscillating Rated insulation voltage: 690V Rated thermal current Ith: 10A.

Designation acording to IEC 60947-5-1 - A300 0	1300.
Operational power in AC15:	

[V]	12	24	48	120	240			
[A]	6	6	6	6	3			
Operational power in DC13:								
[V]	12	24	48	125	250			
[A]	0.55	0.55	0.55	0.55	0.27			
Short circuit protection fuse: max calibre 10A gG								

Contact resistance: ≤20mΩ Terminals: Clamp screw with washer Maximum tightening torque: 1Nm

Mounting adapter and auxiliary contacts

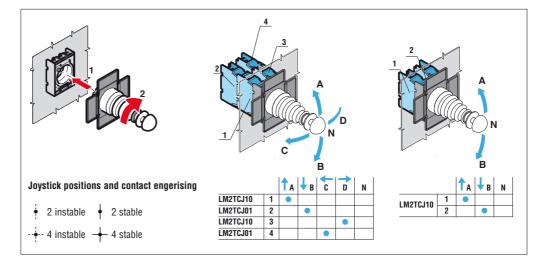
The joystick is standard supplied with the mounting adapter and auxiliary contacts. The joystick latches onto the mounting adapter by

simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm). Auxiliary contacts snap onto the mounting adapter. Two LM2T CJ... contacts are mounted with the LM2T J2... types while four on the LM2T J4... versions.

Certifications and compliance Certifications obtained: GOST, CCC; cULus for auxiliary contacts.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508 and CSA C22.2 n° 14 for contacts only.







Contact and light elements

8 LM Ø22mm metal series

Mounting adapter



8 LM2T AU120

Contact elements





8 LM2T C...



8 LM2T E...



8 LM2T CF01



Order code	Description	Qty per pkg	Wt
		n°	[kg]
Only for metal series	actuators.		
8 LM2T AU120	Mounting adapter	10	0.019

Metal series actuators are supplied without mounting adapter. Plastic series actuators are supplied complete with mounting adapter (type LP2T AU120).

Order code	Function	Qty per pkg	Wt					
		n°	[kg]					
Screw termination. Without mounting adapter.								
8 LM2T C100	.3 .4 NO O	10	0.011					
8 LM2T C10A	EM 2	10	0.011					
8 LM2T C01⊖	L.1 / NC❸	10	0.011					
8 LM2T C01D	L.5 / LB OO	10	0.011					
Screw termination. With mounting adapter for actuators metal series LM2T only.								

29

8 LM2T E100	. .3		10	0.029
	.4	NO		
8 LM2T E01⊖	ب 1		10	0.029
	.2	NC®		
E 1 1 1 1				

Faston termination. Without mounting adapter

without mounting adapter.						
8 LM2T CF100	.3	100	10	0.012		
	.4	NO				
8 LM2T CF01	۱.1	_	10	0.012		
	.2	NC 🕄				

1 Not suitable for push-push actuators. Use LM2T C10A (EM) or LM2T

C01 (NC) type only with push-push actuators. ❷ Normally open contact with early make operation. ❸ Direct opening operation → in accordance with IEC/EN 60947-5-1.

In the optimity optimities of the optimities

Operational characteristics

- Ambient conditions: Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
- IP20 for contacts elements with screw termination
- IP00 for contact elements with Faston termination.

General characteristics of the auxiliary contacts

Self-cleaning with dual effect, scraping and oscillating Rated insulation voltage: 690V

Rated thermal current Ith: 10A

Designation according to IEC 60947-5-1: A600 Q600 Operational power in AC15:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
Operational power in DC13:									
[V]	12	24	4	8	125	250	440	500	600
[A]	3	3	1.	5 ().55	0.27	0.15	0.13	0.1
Short-circuit protection fuse: max. calibre 10A gG									

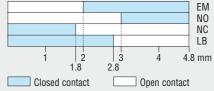
Contact resistance: $\leq 20m\Omega$

Terminals: Clamp screw with washer

Faston 1-6.35mm or 2-2.8mm

Maximum tightening torque: 1Nm (Faston excluded).

Stroke of auxiliary contacts



Maximum conductor section for screw termination 1 or 2 2.5 mm² or AWG12 cables

Mechanical and electrical endurance

Operating force: 0.	5 kg (au	xiliary cont	acts).	
Electrical life:	LM2T		1,000,000	cycles
	LM2T	CF10	1,000,000	
	LM2T	C01	1,000,000	cycles
	LM2T	CF01	1,000,000	cycles
	LM2T	C10A	600,000	cycles
	LMET	C01D	600,000	
		-50	<u> </u>	

6 When using Faston, vertical interaxes is 90mm minimum.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1; UL508; CSA C22.2 nº 14.



Contact and light elements 8 LM Ø22mm metal series

Lamp-holders elements without mounting adapter



8 LM2T EL400 8 LM2T ZL230



8 LM2T YL... 8 LM2T GL...

Lamp-holders elements with mounting adapter



8 LM2T DL400

Test element for lamp-holders without mounting adapter



8 LM2T T100

Order code	Rated supply voltage	Type of bulb supplied	Qty per pkg	Wt
	[V] 50/60Hz		n°	[kg]
Direct supply.				
8 LM2T EL4000	≤415VAC/DC	No	10	0.011
With resistor and d	iode.			
8 LM2T ZL230@	230VAC	Yes 130V (2W)	10	0.015
With transformer®				
8 LM2T YL110@	110120VAC	Yes 24V (1.2W)	1	0.086
8 LM2T YL230@	220240VAC	Yes 24V (1.2W)	1	0.084
8 LM2T YL400@	380415VAC	Yes 24V (1.2W)	1	0.087
Flashing S.				
8 LM2T GL048@®	2448VAC	No	1	0.027
8 LM2T GL230@@	110230VAC	No	1	0.027

Order code	Rated supply voltage	Type of bulb supplied	Qty per pkg.	Wt
	[V] 50/60Hz		n°	[kg]
Direct supply.				
8 LM2T DL4000	≤415VAC/DC	No	10	0.029

	Order code	Description	Qty per pkg.	Wt
-			n°	[kg]
	Test element for lamp-holders.			
	8 LM2T T100	Test element 660	10	0.011

- Filament bulb, BA9s U≤130VAC/DC max 2.6W (not supplied); maximum dimensions 11x28 mm.
- For higher voltages, use neon bulbs. Not suitable for 3-position selectors.
- 6 Filament bulb, BA9s (not supplied); maximum dimensions 11x28mm/0.4x1.1".
- Use bulbs with rated voltage equal to that of the power supply Suitable for AC duty only.
- Guidale of value of the second of the second
- Multicle balas much not be inteed.
 In case of test circuits for lamp-holders having load in parallel, two LM2T T100 elements are required for each bulb. Refer to the wiring diagram attached to the product or contact our Customer Service 1800 252 995 or sales@mechtric.com.au
- In case of neon bulbs, contact our Customer Service 1800 252 995 or sales@mechtric.com.au
- Only use with lamp-holder elements
- With direct supply With resistor and diode
- 8 Not suitable for use with test element.



Operational characteristics

- Operating supply voltage limits for all types: -15...+10% Ue
- Any mounting position allowed
- The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm) also internally on LPZ control stations covers
- Lamp-holder elements snap onto the adapter
- Only lamp-holder elements LM2T DL400, LM2T EL400, LM2T T100 and LM2T ZL230 can be used with LPZ control stations
- Maximum tightening torque: 1Nm
- Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C - Degree of protection: IP20.

Mounting adapter

See page 4-35 Type : LM2T AU120 for LM2T EL400, LM2T ZL230, LM2T YL..., LM2T GL... and/or LM2T T100.

Maximum conductor cross section

1 or 2 2.5mm² or AWG 12 cables.



With resistor and diode LM2T ZL230 -141-- x2 Flashing LM2T GL ¢۵

Test element LM2T T100

Certifications and compliance

Certifications obtained: cULus, EAC, RINA, LROS, CCC. Compliant with standards: IEC/EN 60947-1 IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.





Contact and light elements

8 LM Ø22mm metal series

LED elements steady light



		colour	per pkg.		
	[V]		n°	[kg]	
	Screw termination. Supplied without mounting adapter.				
8 LM2T LB30	1230VAC/DC	Green	10	0.016	
8 LM2T LB40		Red	10	0.016	
8 LM2T LB50		Yellow	10	0.016	
8 LM2T LB60		Blue	10	0.016	
8 LM2T LB80		White	10	0.016	
8 LM2T LE3	85140VAC	Green	10	0.016	
8 LM2T LE4		Red	10	0.016	
8 LM2T LE5		Yellow	10	0.016	

Order code Supply voltage LED Qty Wt

8 LIVIZI LES		Yellow	10	0.016
8 LM2T LE6		Blue	10	0.016
8 LM2T LE8		White	10	0.016
8 LM2T LM3	185265VAC	Green	10	0.016
8 LM2T LM4		Red	10	0.016
8 LM2T LM5		Yellow	10	0.016
8 LM2T LM6		Blue	10	0.016
8 LM2T LM8		White	10	0.016

Only LM2T LB... type is suitable for use with LM2T T100 test element.

LED elements flashing light



Order code	Supply voltage	LED colour	Qty per pkg.	Wt
	[V]		n°	[kg]
Screw terminat Supplied witho	ion. ut mounting adapter.			
8 LM2T MB3@	1830VAC/DC	Green	10	0.016
8 LM2T MB4@		Red	10	0.016
8 LM2T MB5@		Yellow	10	0.016
8 LM2T MB6@		Blue	10	0.016
8 LM2T MB8@		White	10	0.016
8 LM2T ME3	85140VAC	Green	10	0.016
8 LM2T ME4		Red	10	0.016
8 LM2T ME5		Yellow	10	0.016
8 LM2T ME6		Blue	10	0.016
8 LM2T ME8		White	10	0.016
8 LM2T MM3	185265VAC	Green	10	0.016
8 LM2T MM4		Red	10	0.016
8 LM2T MM5		Yellow	10	0.016
8 LM2T MM6		Blue	10	0.016
8 LM2T MM8		White	10	0.016

Only LM2T MB... type is suitable for use with LM2T T100 test element.

Operational characteristics

- rated frequency: 50-60Hz
- Supply voltage:
- Steady light: 12...30VAC/DC; 85...140VAC; 185...265VAC • Flashing light: 18...30VAC/DC; 85...140VAC,
- 185...265VAC
- maximum consumption:
 - Steady and flashing light: 17mA-0,50W (12...30VAC/DC); 20mA-0,40W (85...140VAC); 18mA-0,55W (185...265VAC)
- Protection:
- · Against overvoltages
- · Against stray currents in wiring
- To reduce flickering phenomenon
- . To withstand vibrations
- minimum activation voltage: • Steady light: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
 - Flashing light: 5V-1,5mA (18...30VAC/DC); 13V-1,5mA (85...140VAC); 25V-1,5mA (185...265VAC)
- Electrical life: 100,000 hours
- Snap onto 8 LM2T AU120 mounting adapter in the middle position for each illuminated actuator, also internally on the LPZ control station cover
- No other element can be stacked behind LED elements
- Any mounting position allowed
 Maximum tightening torque: 1Nm
- Ambient conditions:
- Operating temperature: -25...+60°C
 Storage temperature: -40...+85°C
 Degree of protection: IP20.

Mounting adapter

See page 4-35. Type: LM2T AU120. The adapter is fixed on the mounting surface by means of incorporated screws (Tmax=0,8Nm).

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: cULus, EAC, CCC. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 nº 14.



Accessories and spare parts 8 LM Ø22mm metal series



Accessories and spare parts



8 LM2T L...





8 LM2T M..



Order code	Description	Qty per pkg	Wt
		n°	[kg
8 LM2T A120	Coloured diffuser for double touch buttons	10	0.00
8 LM2T A130	Threaded plug for unused drilled holes (black)	10	0.00
8 LM2T A140	Action plug for centre contact	50	0.00
8 LM2T A150	Rod for mechanical reset button (I=140mm/5.5")	10	0.00
8 LM2T A160	BA9s bulb extractor	10	0.004
8 LM2T A161	Hole size adapter set for Ø30mm/1.2" to 22mm/0.87" (2 per hole)	10	0.00
8 LM2T A170	Spare key set for selector or mushroom head button	1	0.008
8 LM2T A170G@	Spare key set for G series selector or mushroom-head button	1	0.00
8 LM2T A185	Selector protection shroud for short lever	10	0.004
8 LM2T A190	Diffuser for pilot light	10	0.00
8 LM2T ALA024	Filament bulb BA9s 24VAC/DC - 1,2W	100	0.002
8 LM2T ALB024	Filament bulb BA9s 24VAC/DC - 2W	100	0.00
8 LM2T ALB048	Filament bulb BA9s 48VAC/DC - 2W	100	0.00
8 LM2T ALB130	Filament bulb BA9s 130VAC/DC - 2W	100	0.00
8 LM2T ALLOO6®	LED bulb BA9s 6VAC/DC	10	0.00
8 LM2T ALL024®	LED bulb BA9s 24VAC/DC	10	0.00
8 LM2T ALL048®	LED bulb BA9s 48VAC/DC	10	0.003
8 LM2T ALN130@	Neon bulb 🛛 BA9s 110125VAC	100	0.003
8 LM2T ALN250@	Neon bulb BA9s 220250VAC	100	0.00
8 LM2T ALP130	Neon bulb ® BA9s 110125VAC	100	0.00
8 LM2T ALP250@	Neon bulb ® BA9s 220250VAC	100	0.003

Add the number of the selected colour: 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white).
 Versions with different key code. Complete with the numeric code of the key. The following versions are available: 501; 502; 503; 504; 505; 506; 507; 508; 509; 510. Example of complete code: 8 LM2T A170G505. Coloured key versions are available on request; contact our Customer Service 1800 252 995 or sales@mechtric.com.au
 Add the number of the selected colour: 3 (green); 4 (red); 5 (yellow). It is advisable to use the same colour of bulb as of the actuator to obtain

It is advisable to use the same colour of bulb as of the actuator to obtain

adequate light emission.

A Neon bulbs emit an amber light and may not be suitable for use with green or blue pilot lights and illuminated actuators.

Glass with diffuser lens.Plastic neon bulb.



Accessories and spare parts 8 LM Ø22mm metal series

Accessories and spare parts



8 LM2T AT...





8 LM2T AU100 8 LM2T AU105



8 LM2T AU108 8 LM2T AU106





8 LM2T AU159



	Order code	Description	Qty per pkg.	Wt
			n°	[kg]
	8 LM2T AT0	Printed label to be inserted in pilot lights and illuminated pushbuttons	50	0.001
	8 LM2T AU100@	Legend holder	50	0.001
	8 LM2T AU105@	Legend holder (for 8 LM2T AU106 paper or 8 LM2T AU108 plastic labels)	50	0.003
	8 LM2T AU106	Blank paper label for writing (for LM2T AU105)	50	0.002
	8 LM2T AU107	Transparent protection for LM2T AU106 label	50	0.001
	8 LM2T AU108	Blank plastic label for engraving (for LM2T AU105)	50	0.002
	8 LM2T AU13❸	IP66 boot for pushbuttons LM2T B1/R1	10	0.006
	8 LM2T AU14❸	IP66 boot for pushbuttons LM2T B2/B3//BL2/R2	10	0.009
	8 LM2T AU157	IP66 boot for double and triple buttons (transparent)	10	0.007
V	8 LM2T AU159	Shroud for buttons 8 LM2T B62/63/65/66, 8 LM2T BL62	10	0.010
V	LPX DIN	Adapter for mounting 8 LM2T buttons on DIN rail 35mm wide (2 modules)	10	0.008
	8 LM2T AU167	IP66 protective boot for mushroom head buttons LM2T B62/B63 (transparent)	10	0.012
	8 LM2T AU170	Actuator gasket	10	0.006

1 Available only on specific request, contact our Customer Service

1800 252 995 or sales@mechtric.com.au 2 To preserve actuators degree of protection (IP65) place their gasket

between legend holder and mounting surface. So For flush and extended push-buttons, complete the order code by adding the ro instantic stanting complete pairs or only complete in order code by adding the digit of the required colour: 2 (black); 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white). For illuminated push-buttons, add only digit 7 (transparent).





Order code

Text

Accessories and spare parts 8 LM Ø22mm metal series



Labels with text for LM2T AU100 legend holder



8 LM2T AGB230

Urder code	lext	pkg	VVT	
		n°	[kg]	
General use.			1.01	
8 LM2T AU206	Blank for writing	50	0.001	
8 LM2T AU207	Sheet with 108 labels for laser printing	10	0.005	
8 LM2T AU208⊕	Sheet with 108	10	0.005	
0 1 1407 41040	laser-printed labels	50	0.001	
8 LM2T AI210	LATCH	50	0.001	
8 LM2T AI211	OPEN	50	0.001	
8 LM2T AI212	STOP	50	0.001	
8 LM2T AI213	GENERAL STOP	50	0.001	
8 LM2T AI214	STOP RESET	50	0.001	
8 LM2T AI215	FORWARD	50	0.001	
8 LM2T AI216	CLOSE	50	0.001	
8 LM2T AI217	RIGHT	50	0.001	
8 LM2T AI218	LOWER	50	0.001	
8 LM2T AI219	OFF	50	0.001	
8 LM2T AI220	EMERGENCY	50	0.001	
8 LM2T AI221	OFF	50	0.001	
8 LM2T AI222	REVERSE	50	0.001	
8 LM2T AI223	ON	50	0.001	
8 LM2T AI237	THERMAL TRIP	50	0.001	
8 LM2T AI224	SLOW	50	0.001	
8 LM2T AI225	RUNNING	50	0.001	
8 LM2T AGB226	RESET	50	0.001	
8 LM2T AI226	RESET	50	0.001	
8 LM2T AI227	RAISE	50	0.001	
8 LM2T AI228	LEFT	50	0.001	
8 LM2T AI229	POWER ON	50	0.001	
8 LM2T AGB225	START	50	0.001	
8 LM2T AGB230	STOP	50	0.001	
8 LM2T AGB214	STOP-RESET	50	0.001	
8 LM2T AI231	FAST	50	0.001	
For selector switc				
8 LM2T AI232	STOP-START	50	0.001	
8 LM2T AI233	AUTO-MAN	50	0.001	
8 LM2T AI234	AUTO-O-MAN	50	0.001	
8 LM2T AI242	MAN-O-AUTO	50	0.001	
8 LM2T AI235	FWD-0-REV	50	0.001	
8 LM2T AI236	ON - OFF	50	0.001	
8 LM2T AI241	MAN-AUTO	50	0.001	
8 LM2T AGB232	STOP-START	50	0.001	
8 LM2T AGB236	OFF-ON	50	0.001	
International labels	for pushbuttons.			
8 LM2T AU200	0	50	0.001	
8 LM2T AU201	1	50	0.001	
8 LM2T AU202	11	50	0.001	
International labels for selector switches.				
8 LM2T AU203	0-1	50	0.001	
8 LM2T AU204	1-11	50	0.001	
8 LM2T AU205	1-0-11	50	0.001	

General characteristics

Qty per Wt

The labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive).

Recommended use with LM2T AU206 blank label.
 Sheet with 108 adhesive labels.
 Complete code with label text required.

Plastic disk for mushroom head pushbuttons EMERGENCH

STOP

Ordering code	Text	Qty per pkg	Wt
		n°	[kg]
8 LM2T AU113	EMERGENCY STOP Ø90mm/3.5"	10	0.005
8 LM2T AU115	EMERGENCY STOP Ø60mm/2.4"	10	0.003

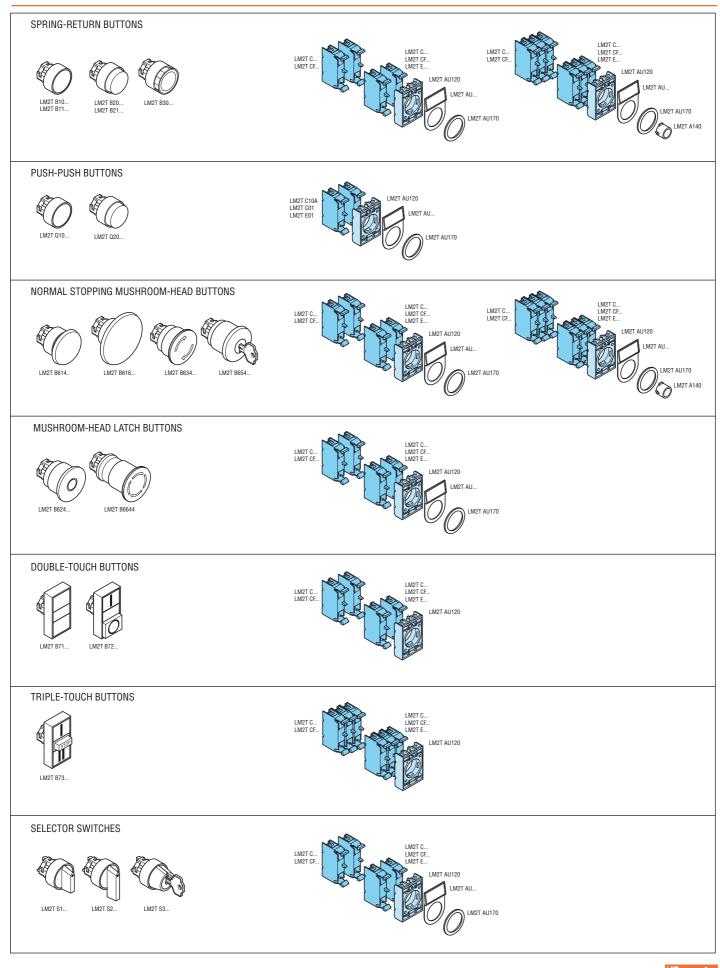
General characteristics

The disks are made of non-adhesive plastic. It is not possible use plastic disks with protection 8 LM2T AU159.





Combinations for metal series pushbuttons and selector switches 8 LM Ø22mm metal series



Panel Mount Signal Devices

ESS-22D Buzzers and Pilot Lights

Pilot Lights

ESSB22DB...

ESSB22D...

- High output LED indicators
- Dual colour (red/green) versions
 - Buzzer and buzzer LED combination
 - 22mm panel cutout





ESSB22DS...



Specifications LED pilot lights

Protection: Current: Temp Rating (°C): Cable Entry: Rating: Construction: IP65 from front less than 20mA -30 to +50 Screw terminals on Back Continuous Polycarbonate

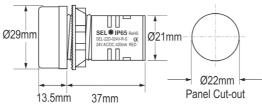
Buzzer (buzzer/LED)

Current: Sound Output: 15-25mA 80dB @ 10cm, intermittent tone

Certifications and compliance Certifications obtained: **CE and RoHS**

Voltage	Order Code	Order Code					
	Single colour LED	Dual colour red/green LED	Buzzer	Buzzer/LED			
8-36V ac/dc	ESSB22D0636V*						
12VAC/DC		ESSB22DSPF1RG22	ESSB22DBDBZ012	ESSB22DFS012*			
24VAC/DC		ESSB22DSPF1RG23	ESSB22DBDBZ024	ESSB22DFS024*			
48VAC/DC		ESSB22DSPF1RG25	ESSB22DBDBZ048	ESSB22DFS048*			
130VAC/DC	ESSB22D130V*	ESSB22DSPF1RG27	ESSB22DBDBZ130	ESSB22DFS130*			
230VAC	ESSB22D230V*	ESSB22DSPF1RG31	ESSB22DBDBZ230	ESSB22DFS230*			
Other voltages and special features available on request				* available in red or yellow only			

* specify colour: A = amber, B = blue, C = clear, G = green, R = red, Y= yellow



(50mm for buzzer and buzzer/LED)

Accessories

Order Code	Description
SOLSEL22DMT	Mounting tool for 22D pilot lights
SOLSEL22DLSLC	Silicon rubber lens cover for IP67





•

beacon

Sounder

M30 panel mounting signals

Multifunction LED beacon with 3 stage

alarm (P40S) or steady beacon (P40J)

Multi-Colour (red/amber green) LED

CONTROL AND SIGNALLING UNITS

Panel Mount Signal Devices

- **P40**



	Sounder						
	Order Code	Model	Colo	ur	Voltage	Stages/Sound Level	Weight (Kg)
	SIR01P91208	P40AJ			12/24VAC/DC	Continuous tone	0.04
-	SIR01P91210	P40AJ	Grou		90/240VAC	70dB @ 1m	0.04
	SIR01P91177	P40A	Grey		12/24VAC/DC	Continuous/intermittent	0.04
()	SIR01P91179	P40A]		48/240VAC	Continuous tone 70dB @ 1m Continuous/intermittent tone 85dB@1m Steady light Steady light 3 stages Steady/Flashing/Strobe Steady/Flashing/Strobe Steady/Flashing/Strobe Steady/Flashing/Strobe	0.04
	Beacon						
	SIR01P91221	P40J	Blue				0.04
P40AJ - P40A	SIR01P91222	P40J	Amb	er			0.04
	SIR01P91223	P40J	Red				0.04
	SIR01P91224	P40J	Gree	n	12/24VAC/DC	Steady light	0.04
	SIR01P91225	P40J	Yello	w			0.04
	SIR01P91226	P40J	Whit	e			0.04
	SIR01P91241	P40J	Blue				0.04
	SIR01P91242	P40J	Amb	er		Continuous tone 70dB @ 1m Continuous/intermittent tone 85dB@1m Steady light Steady light 3 stages Steady/Flashing/Strobe 3 stages Steady/Flashing/Strobe Steady/Flashing/Strobe	0.04
	SIR01P91243	P40J	Red				0.04
	SIR01P91244	P40J	Gree	n	48/240VAC		0.04
	SIR01P91245	P40J	Yello	w			0.04
	SIR01P91246	P40J	Whit	e	_		0.04
	SIR01P91131	P40S	Blue				0.04
and an a state	SIR01P91132	P40S	Amb				0.04
P40J - P40S	SIR01P91133	P40S	Red				0.04
	SIR01P91134		n	12/24VAC/DC	-	0.04	
	SIR01P91135	P40S	Yello			0.04	
	SIR01P91136	P40S	Whit				0.04
	SIR01P91151	P40S	Blue				0.04
	SIR01P91152	P40S	Amber				0.04
	SIR01P91153	P40S	Red				0.04
	SIR01P91154	P40S	Gree	m	90/240VAC	-	0.04
	SIR01P91155	P40S	Yello				0.04
	SIR01P91156	P40S	Whit				0.04
			wint	C			0.04
	Multi-Colour B	P40RGA			12/24VAC/DC		0.04
					12/24VAC/DC 48/240VAC	Continuous tone 70dB @ 1m Continuous/intermittent tone 85dB@1m Steady light Steady light Steady light 3 stages Steady/Flashing/Strobe Steady light 3 stages Steady/Flashing/Strobe Steady/Flashing/Strobe Steady light Image: Steady/Flashing/Strobe Steady/Flashing/Strobe Steady light Steady light Steady/Flashing/Strobe Steady/Flashing/Strobe Steady/Flashing/Strobe Steady light 3 stages Flashing light/Flashing Stages Flashing light/Flashing Stages Stages	
	SIR01P91171	P40RGA		5 -			0.04
P40RGA	SIR01P91168	P40RGA	Red	Amber Green	12/24VAC/DC		0.04
	SIR01P91172	P40RGA			48/240VAC		0.04
	Sounder-beac		Dire				0.04
	SIR01P91181	P40ALED	Blue				0.04
	SIR01P91182	P40ALED	Amb	er			0.04
	SIR01P91183	P40ALED	Red		12/24VAC/DC	light + intermittent	0.04
	SIR01P91184	P40ALED	Gree				0.04
	SIR01P91185	P40ALED	Yello			continuous sounu	0.04
	SIR01P91186	P40ALED	Whit				0.04
	SIR01P91201	P40ALED	Blue				0.04
	SIR01P91202	P40ALED	Amb	er			0.04
	SIR01P91203	P40ALED	Red		48/240VAC		0.04
	SIR01P91204	P40ALED	Gree			sound/steady light +	0.04
P40ALED	SIR01P91205	P40ALED	Yello	W		continuous sound	0.04

- Piezo sounder with 2 stage alarm (P40A), or single continuous tone (P40AJ)
- Combined piezo sounder with LED beacon with 3 stage alarm

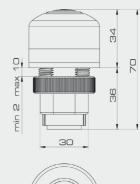
General characteristics

Self-extinguishing poly carbonate body total protected against dust, water spray and vibrations. Standard housing colour is grey, black colour housing optional. Can be panel mounted through a ø30mm hole.

Specifications Rated voltage:

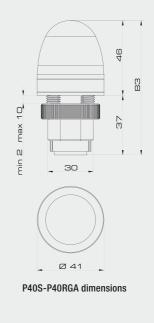
Rated voltage:	12/24V AC/DC, 48/240VAC
	(90-240VAC for P40J version)
Voltage tolerance:	± 10%
Rated current:	19mA to 130mA depending
	on model
Rated frequency:	50/60Hz
Sounder output:	85dB@1m (70dB for P40AJ)
Sounder tone:	3500+/-100Hz
	(3000Hz for P40AJ)
Protection:	IP66 for beacons only,
	IP65 for sounders
Rating:	Continuous
Operating Temp.:	-30 to +50°C

Compliance and standards Certifications obtained: CE, UL(type 3R), GOST





P40A - P40ALED dimensions





Brisbane (07) 3274 3327

PAGE 4-43

SIR01P91206 P40ALED White

0.04

Signal Towers



- Unique elliptical design 70mm x 50mm
- Choice of multi-function LED light modules with 4 flash patterns, steady LED light modules or high output strobe effect light modules
- Choice of light modules with colour lens, with clear lens and colour LED's for high ambient light applications, or low light output versions for close proximity.
- Choice of wiring modules with or without built in flash circuit. Modules allow up to maximum of 6 light modules + 1 audible module.

WM LT basic wiring module black

WM HT basic wiring module black

WM LT MULTI wiring module 4

WM HT MULTI wiring module 4

Proximity

SIRT32411

60-90 adjustable 490-2800Hz 450mA

light effects black colour

light effects black colour

Order Code

Clear Lens

Coloured LED

SIRT32341

2 choices of audible modules

Description

colour

colour

Wide choice of mounting bases.
Housings and mounting bases in black colour (optional grey or white)

ELYPSE WM Wiring Module includes top cap

12/24V ACDC

120/240V AC

12/24V ACDC

120/240V AC

Coloured Lens

SIRT32331

AMS

8+8

ELYPSE LM Steady Light Module 110mA

Voltage

Order Code

SIRT32458

SIRT32321

SIRT32468

SIRT32327

Colour

Blue

SIRT32348

	-	
		and the second se
100		

ELYPSE WIRING MODULE

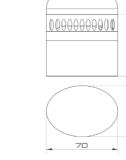


SIRT32332 SIRT32342 SIRT32412 Amber 0.04 SIRT32333 SIRT32343 SIRT32413 0.04 Red SIRT32334 SIRT32344 SIRT32414 0.04 Green Yellow **SIRT32335** SIRT32345 SIRT32415 0.04 White SIRT32336 SIRT32346 SIRT32416 0.04 Audible Module (Black Colour) **Order Code** No. Sound Output Sound Current Weight Type (dB @ 1m) Frequency Tones (Kg) SIRT32338 AM 130mA 1+1 87 3600Hz 0.08

ELYPSE AUDIBLE MODULE



Dimensions Elypse-WM



Dimensions Elypse-AM



General characteristics

WM Basic Wiring Module

With 7 electrical contacts, it allows assembly of maximum 7 modules: 6 light modules + 1 audible module (1 channel) or 5 light modules + 1 acoustic module (2 channels).

WM Multi-function Wiring Module

With the same main characteristics of the WM module, WM MULTI allows the possibility of generating a flashing sequence in any of the installed modules via the activation of a dedicated BLINK channel. With 4 light effects: single flash, double flash, triple flash and stroboscopic. The BLINK channel can be triggered independently for each module, allowing the change from steady to flashing light during the normal operations of the stacklight. The BLINK channel activation can be done directly as well as via PLC.

A top cap for closure of the stacklight when an acoustic module is not installed, is provided with each WM module.

LM Steady Light Module

Weight (Kg)

0.05

0.16

0.05

0.16

Weight

(Kg)

0.04

0.09

С ОС

ຒ

δ

Entry level LED light module available with choice of coloured lens or clear lens (with colour LED's) or proximity lens. Can be used with WM basic or WM multi-function wiring module.

LMS Steady Light Module

Higher output LED light module available with choice of coloured lens or clear lens (with colour LED's). Can be used with WM basic or WM multi-function wiring module.

LMS Multi Light Module

Multi-function high output LED light module with 4 flash effects (double flash, triple flash, strobe effect or random). Available with choice of coloured lens or clear lens (with colour LED's). Can be used with WM basic wiring module only.

LMX Multi Light Module

Super bright multi-function LED light module designed to replace xenon strobes, with 4 flash effects (double flash, triple flash, strobe effect or random). Available with coloured lens only. Can be used with WM basic wiring module only.

AM Audible Module

Audible module with 2 tones, intermittent or continuous. Either one or both tones can be selected by using one or two of the 7 available contacts in the wiring base. Can be used with WM basic or WM multi-function wiring module.

AMS Audible Module

Audible module with 16 tones, in groups of 8 with one tone each group selectable by DIP switches. Either one or both tones can be selected by using one or two of the 7 available contacts in the wiring base. Can be used with WM basic or WM multi-function wiring module.

Specifications:

Protection:	IP65
Temp Rating (°C):	-30 to +50
Cable Entry:	Through mounting base unit.
Rating:	Continuous
Construction:	Polycarbonate
For full dimensional deta	ils see www.mechtric.com.au

Compliance and standards

Certifications obtained: CE, UL, TUV



PAGE 4-44





Colour

Blue

Amber

Red

Green

Yellow

CONTROL AND SIGNALLING UNITS Signal Towers

ELYPS













ELYPSE LIGHT MODULE



SIRT32358



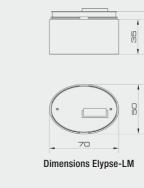
SIRT32368











4 (i)



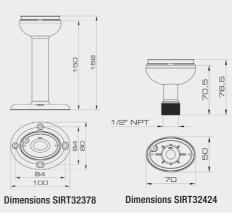
Dimensions SIRT32358



Dimensions SIRT32368



Dimensions SIRT32388





Weight (Kg)

0.04

0.04

0.04

0.04

0.04

0.04

SIRT32376 SIRT32386 White ELYPSE LM S MULTI High Brightness Flashing Light Module 100mA

ELYPSE LM S High Brightness Steady Light Module 100mA

Coloured Lens

SIRT32371

SIRT32372

SIRT32373

SIRT32374

SIRT32375

Order Code

Clear Lens Coloured LED

SIRT32381

SIRT32382

SIRT32383

SIRT32384

SIRT32385

Colour		Weight	
	Coloured Lens	Clear Lens Coloured LED	(Kg)
Blue	SIRT32391	SIRT32401	0.04
Amber	SIRT32392	SIRT32402	0.04
Red	SIRT32393	SIRT32403	0.04
Green	SIRT32394	SIRT32404	0.04
Yellow	SIRT32395	SIRT32405	0.04
White	SIRT32396	SIRT32406	0.04

ELYPSE LM X High Brightness Xenon Effect Light Module 100mA

Colour	Order Code	Weight
	Coloured Lens	(Kg)
Blue	SIRT32351	0.04
Amber	SIRT32352	0.04
Red	SIRT32353	0.04
Green	SIRT32354	0.04
Yellow	SIRT32355	0.04
White	SIRT32356	0.04

ELYPSE MB Mounting Bases

Order Code	Description	Weight (Kg)
SIRT32358	Surface Mount Base black colour	0.05
SIRT32368	Wall Mount Base black colour	0.06
SIRT32388	Pole Mount Base ½" NPT-F black colour	0.08
SIRT32378	Extended Mounting Base 150mm black colour	0.07
SIRT32424	Stainless Steel Tube Mounting Base 141mm black colour	0.10
SIRT32425	Stainless Steel Tube Mounting Base 241mm black colour	0.14
SIRT32426	Stainless Steel Tube Mounting Base 341mm black colour	0.18
SIRT32427	Stainless Steel Tube Mounting Base 441mm black colour	0.22

Signal Towers

TWS





TWS BASE WIRING MODULE













TWS LIGHT MODULES

Choice of multi-function LED light modules with 4 flash patterns, steady LED light modules, high output multi-function light modules, filament bulb modules

and xenon modules. Choice of light modules with colour lens, with clear lens and

TWS Base Wiring Module includes top cap

Order Code	Description	Weight (Kg)
SIRT27690	Base and cap module black colour	0.12

colour LED's for high ambient

• Wide choice of mounting bases.

Heavy duty IP69K stainless

enclosures available

steel or anodized aluminum

black colour (optional grey).

· Housings and mounting bases in

light applications.

TWS LED STEADY Light Module 85mA

IWS LED SI	EADT LIGHT MODULE	AIIICO				
		Order Code				
Voltage	24V ACDC	110V AC	240V AC			
Colour		Coloured Lens				
Blue	SIRT36681	SIRT36691	SIRT36701	0.11		
Amber	SIRT36682	SIRT36692	SIRT36702	0.11		
Red	SIRT36683	SIRT36693	SIRT36703	0.11		
Green	SIRT36684	SIRT36694	SIRT36704	0.11		
Yellow	SIRT36685	SIRT36695	SIRT36705	0.11		
White	SIRT36686	SIRT36696	SIRT36706	0.11		
Colour	Cle	ear Lens Coloure	ed LED			
Blue	SIRT33151	SIRT33161	SIRT33171	0.11		
Amber	SIRT33152	SIRT33162	SIRT33172	0.11		
Red	SIRT33153	SIRT33163	SIRT33173	0.11		
Green	SIRT33154	SIRT33164	SIRT33174	0.11		
Yellow	SIRT33155	SIRT33165	SIRT33175	0.11		
White	SIRT33156	SIRT33166	SIRT33176	0.11		

TWS LED MULTI Light Module 85mA

TWS LED MUL	TI Light Module 8	5mA				
		Order Code				
Voltage	24V ACDC	110V AC		240V AC		
Colour		Color	ured Len	S		
Blue	SIRT36711	SIRT	36721	SIRT36731	0.11	
Amber	SIRT36712	SIRT	36722	SIRT36732	0.11	
Red	SIRT36713	SIRT	36723	SIRT36733	0.11	
Green	SIRT36714	SIRT	36724	SIRT36734	0.11	
Yellow	SIRT36715	SIRT	36725	SIRT36735	0.11	
White	SIRT36716	SIRT	36726	SIRT36736	0.11	
Colour	Cle	ar Lens	s Coloure	d LED		
Blue	SIRT33211	SIRT33221		SIRT33231	0.11	
Amber	SIRT33212	SIRT33222		SIRT33232	0.11	
Red	SIRT33213	SIRT33223		SIRT33233	0.11	
Green	SIRT33214	SIRT33224		SIRT33234	0.11	
Yellow	SIRT33215	SIRT	33225	SIRT33235	0.11	
White	SIRT33216	SIRT	33226	SIRT33236	0.11	
TWS S LED MU	JLTI Super Bright	Light N	/lodule 4	50mA		
		Ord	ler Code		Weight (Kg)	
Voltage	24V ACDO	;	24V ACDC			
Colour	Coloured Le	ns	Clear Lens Coloured LED			
Blue	SIRT3342	1	SIRT33441		0.11	
Amber	SIRT3342	2	SIRT33442		0.11	
Red	SIRT3342	3	SIRT33443		0.11	
Green	SIRT3342	4	SIRT33444		0.11	
Yellow	SIRT3342	5	SIRT33445		0.11	
White	SIRT3342	6		SIRT33446	0.11	



General characteristics

TWS Base and Cap Module

With 1 common and 5 electrical contacts, it allows assembly of maximum 5 light modules or 4 light modules + 1 audible module.

TWS LED Light Module

Integrated LED light module available in steady or multifunction with 4 light effects (steady, single flash, double flash or triple flash). Available with choice of coloured lens or clear lens (with colour LED's).

TWS S LED Light Module

Super bright LED light module 4 light effects (steady, flashing, strobe, or random). Available with choice of coloured lens or clear lens (with colour LED's. Only available in 24V ACDC.

TWS Incandescent Bulb Light Module

Economic option using Ba15d 5w bulb. Available in steady or flashing versions.

TWS X Xenon Light Module

High intensity flash with 2J xenon tube.

TWS PZO Audible Module

Audible module with 6 tones selectable by DIP switch, IP54.

TWS MDA Audible Module

High sound output audible module with 32 tones selectable by DIP switch, IP54.

TWS A Audible Module

Audible module with 16 tones selectable by DIP switch, IP65

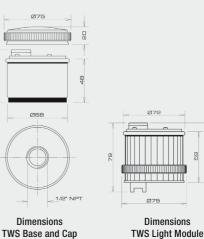
Specifications:

0.

Protection:	IP66 (without audible modules
Temp Rating (°C):	-30 to +50
	(-10 to +45 for xenon version)
Cable Entry:	Through mounting base unit.
Rating:	Continuous
Construction:	Polycarbonate
For full dimensional deta	ails see www.mechtric.com.au

Compliance and standards

Certifications obtained: CE, UL, PCT



TWS Light Module



Perth (08) 9248 0410

Sydney (02) 9676 1671 Melbourne (03) 9706 4599

Adelaide (08) 8347 2499

Brisbane (07) 3274 3327

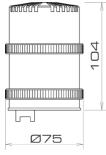
PAGE 4-46



TWS



TWS AUDIBLE MODULE



Dimensions **TWS Audible Module**



SIRT27693



SIRT27691



SIRT27695



SIRT27692

Filame	Filament Bulb (bulbs not included)					
12/240V ACDC	12/48V DC	24/240V AC	24V ACDC	110V AC	240V AC	
Steady	Flas	hing				
SIRT27631	SIRT27641	SIRT27651	SIRT27661	SIRT27671	SIRT27681	0.11
SIRT27632	SIRT27642	SIRT27652	SIRT27662	SIRT27672	SIRT27682	0.11
SIRT27633	SIRT27643	SIRT27653	SIRT27663	SIRT27673	SIRT27683	0.11
SIRT27634	SIRT27644	SIRT27654	SIRT27664	SIRT27674	SIRT27684	0.11
SIRT27635	SIRT27645	SIRT27655	SIRT27665	SIRT27675	SIRT27685	0.11
SIRT27636	SIRT27646	SIRT27656	SIRT27666	SIRT27676	SIRT27686	0.11
	12/240V ACDC Steady SIRT27631 SIRT27632 SIRT27633 SIRT27634 SIRT27635	12/240V ACDC 12/48V DC Steady Flas SIRT27631 SIRT27641 SIRT27632 SIRT27642 SIRT27633 SIRT27643 SIRT27634 SIRT27644 SIRT27635 SIRT27645	12/240V ACDC 12/48V DC 24/240V AC Steady Flashing SIRT27631 SIRT27641 SIRT27651 SIRT27632 SIRT27642 SIRT27652 SIRT27633 SIRT27643 SIRT27653 SIRT27634 SIRT27644 SIRT27654 SIRT27635 SIRT27645 SIRT27655	12/240V ACDC 12/48V DC 24/240V AC 24V ACDC Steady Flashing SIRT27631 SIRT27641 SIRT27651 SIRT27661 SIRT27632 SIRT27642 SIRT27652 SIRT27662 SIRT27633 SIRT27643 SIRT27653 SIRT27663 SIRT27634 SIRT27644 SIRT27654 SIRT27664 SIRT27635 SIRT27644 SIRT27655 SIRT27664	12/240V ACDC 12/48V DC 24/240V AC 24V ACDC 110V AC Steady Flashing 5/24/240V AC 24V ACDC 110V AC SIRT27631 SIRT27641 SIRT27651 SIRT27661 SIRT27671 SIRT27632 SIRT27642 SIRT27652 SIRT27662 SIRT27672 SIRT27633 SIRT27643 SIRT27653 SIRT27663 SIRT27673 SIRT27634 SIRT27644 SIRT27654 SIRT27664 SIRT27674 SIRT27635 SIRT27645 SIRT27655 SIRT27665 SIRT27675	12/240V ACDC 12/48V DC 24/240V AC 24V ACDC 110V AC 240V AC Steady Flashing 5/24/240V AC 5/24/240V AC 110V AC 240V AC SIRT27631 SIRT27641 SIRT27651 SIRT27661 SIRT27671 SIRT27681 SIRT27632 SIRT27642 SIRT27652 SIRT27662 SIRT27672 SIRT27682 SIRT27633 SIRT27643 SIRT27653 SIRT27663 SIRT27673 SIRT27683 SIRT27634 SIRT27644 SIRT27654 SIRT27664 SIRT27674 SIRT27684 SIRT27635 SIRT27645 SIRT27655 SIRT27665 SIRT27675 SIRT27685

Order Code

Bulbs for TWS Filament Modules B15D 5W

TWS Filament Steady/Flashing Light Module 430mA

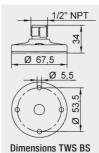
TWS Xenon Light Module 280mA

Voltage	12V		24V		48V		110V		240V		240V AC
Order Code	SIR3906012		SIR3906024		SIR3906048	SIR3906110		SIR3906130			SIR3906240
Audible Module (Black Colour)											
Order Code	Туре	Vo	Itage	No. Tones	Sound Outpu (dB @ 1m)	t	Sound Frequenc	у	Current		Weight (Kg)

Order Code	Туре	Voltage	No. Iones	(dB @ 1m)	Sound Frequency	Current	Weight (Kg)
SIRT27625	PZ0	12/48V ACDC	6	81	2800Hz	13mA	0.13
SIRT27628	PZ0	110/240V AC	6	81	2800Hz	7mA	0.13
SIRT27794	MDA	12/24V ACDC	32	107	300-2850Hz	106mA	0.24
SIRT27796	MDA	110/240V AC	32	107	300-2850Hz	60mA	0.24
SIRT33402	А	12/24V ACDC	16	95	300-2850Hz	240mA	0.24
SIRT33403	А	110/240V AC	16	95	300-2850Hz	120mA	0.24

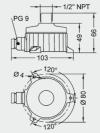
TWS Mounting Accessories and enclosures

Order Code	Description			
SIRT27691	BS surface mount base black	0.03		
SIRT27692	PR extension pole 100mm black	0.03		
SIRT27695	Kit PR with BS black	0.06		
SIRT27845	Kit BS base with 100mm stainless steel extension	0.14		
SIRT27846	Kit BS base with 200mm stainless steel extension	0.18		
SIRT27847	Kit BS base with 400mm stainless steel extension	0.28		
SIRT27693	BP1 wall mount base black	0.04		
SIRT33358	SB stainless steel wall mount bracket with cable gland	0.14		
SIRT27778	Surface mount base with M16 cable gland black	0.10		
SIRT33348	FJ swivel base for inclined surface black	0.11		
SIRT27602	HD stainless steel 316 enclosure IP69K for 2 light stack	2.7		
SIRT27677	HD stainless steel 316 enclosure IP69K for 3 light stack	2.7		
SIRT27606	HD stainless steel 316 Enclosure IP69K for 4 light stack	2.7		
SIRT27603	HD anodised aluminium enclosure IP69K for 2 light stack	1.1		
SIRT27840	HD anodised aluminium enclosure IP69K for 3 light stack	1.1		
SIRT27607	HD anodised aluminium Enclosure IP69K for 4 light stack	1.1		
SIRT27679	HD stainless steel surface mount Base			
SIRT27841	HD aluminium surface mount base			
SIRT27678	HD stainless steel pole mount base			
SIRT27842	HD aluminium pole mount base			
SIRT27680	HD stainless steel side mount base			
SIRT27843	HD aluminium side mount base			



T

Ø25

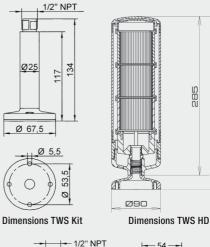


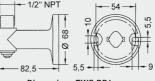
00 00 00 ຒ

ñ

Weight (Kg)

Dimensions TWS Box





Dimensions TWS BP1



Brisbane (07) 3274 3327

PAGE 4-47

Adelaide (08) 8347 2499