

**Lovato**USA

*Promotions*

20  
23

 **Lovato**  
electric

## Manual Motor Starters - SM SERIES

### SM1P - Push Button type



Item #	Adjustments (A)	Unit Price
SM1P 0016	0.1...0.16	<b>\$39.00</b>
SM1P 0025	0.16...0.25	<b>\$39.00</b>
SM1P 0040	0.25...0.4	<b>\$39.00</b>
SM1P 0063	0.4...0.63	<b>\$39.00</b>
SM1P 0100	0.63...1	<b>\$39.00</b>
SM1P 0160	1...1.6	<b>\$39.00</b>
SM1P 0250	1.6...2.5	<b>\$39.00</b>
SM1P 0400	2.5...4	<b>\$39.00</b>
SM1P 0650	4...6.5	<b>\$39.00</b>
SM1P 1000	6.3...10	<b>\$39.00</b>
SM1P 1400	9...14	<b>\$49.00</b>
SM1P 1800	13...18	<b>\$49.00</b>
SM1P 2300	17...23	<b>\$59.00</b>
SM1P 2500	20...25	<b>\$59.00</b>
SM1P 3200	24...32	<b>\$69.00</b>

## Manual Motor Starters - SM SERIES

### SM1R - Rotary knob type UL508 Type E



Phase barrier required for UL 508 Type E

SM1X9000R  
**\$3.00**



Item #	Adjustments (A)	Unit Price
SM1R 0016	0.1...0.16	<b>\$69.00</b>
SM1R 0025	0.16...0.25	<b>\$69.00</b>
SM1R 0040	0.25...0.4	<b>\$69.00</b>
SM1R 0063	0.4...0.63	<b>\$69.00</b>
SM1R 0100	0.63...1	<b>\$69.00</b>
SM1R 0160	1...1.6	<b>\$69.00</b>
SM1R 0250	1.6...2.5	<b>\$69.00</b>
SM1R 0400	2.5...4	<b>\$69.00</b>
SM1R 0650	4...6.5	<b>\$69.00</b>
SM1RE 1000	6.3...10	<b>\$79.00</b>
SM1RE 1400	9...14	<b>\$79.00</b>
SM1RE 1800	13...18	<b>\$79.00</b>
SM1RE 2300	17...23	<b>\$79.00</b>
SM1RE 2500	20...25	<b>\$79.00</b>
SM1RE 3200	24...32	<b>\$89.00</b>

## Electronic Overload Relays

### RFE Series



Item #	Adjustments (A)	Unit Price
RFE45 0200	0.4...2.0	<b>\$59.00</b>
RFE45 0800	1.6...8.0	<b>\$59.00</b>
RFE45 3200	6.4...32.0	<b>\$59.00</b>
RFE45 4500	9.0...45.0	<b>\$59.00</b>

# Soft Starters - Two phase control - ultra compact

## Basic version ADXNB... type



ADXNB...

**new**

Order code	IEC rated starter current le	Rated motor power ≤40°C			Qty per pkg	Unit Price
		400V	400-480V	550-600V		
	[A]	[kW]	[HP]	[HP]	n°	

Parameters setting with potentiometers.  
Built-in bypass relay and 2 relay outputs.  
Rated operational voltage 208...600VAC  
Auxiliary supply Us 100...240VAC.

<b>ADXNB006</b>	6	2.2	3	5	1	<b>\$129.00</b>
<b>ADXNB012</b>	12	5.5	7.5	10	1	<b>\$159.00</b>
<b>ADXNB018</b>	18	7.5	10	15	1	<b>\$179.00</b>
<b>ADXNB025</b>	25	11	15	20	1	<b>\$189.00</b>
<b>ADXNB030</b>	30	15	20	25	1	<b>\$239.00</b>
<b>ADXNB038</b>	38	18.5	25	30	1	<b>\$299.00</b>
<b>ADXNB045</b>	45	22	30	40	1	<b>\$379.00</b>

Auxiliary supply Us 24VAC/DC.

<b>ADXNB00624</b>	6	2.2	3	5	1	<b>\$139.00</b>
<b>ADXNB01224</b>	12	5.5	7.5	10	1	<b>\$169.00</b>
<b>ADXNB01824</b>	18	7.5	10	15	1	<b>\$189.00</b>
<b>ADXNB02524</b>	25	11	15	20	1	<b>\$199.00</b>
<b>ADXNB03024</b>	30	15	20	25	1	<b>\$249.00</b>
<b>ADXNB03824</b>	38	18.5	25	30	1	<b>\$309.00</b>
<b>ADXNB04524</b>	45	22	30	40	1	<b>\$389.00</b>

## General characteristics

ADXN... is a soft starter with two phase control for the gradual control of the start and stop of asynchronous motors. Its main strengths are the simplicity of configuration, thanks to a short set of parameters which allows the programming simple and fast, and the compactness, thanks to the enclosure only 45mm wide which makes it suitable for the installation in panels with limited spaces.

It can be used for several applications such as the control of pumps, fans, compressors, conveyor belts and mixers. It is available with rated current from 6 to 45A, suitable for the installation in systems with rated line voltage from 208 to 600VAC 50/60Hz.

The series consists of 3 versions which differs in the type of programming mode (settings with potentiometers on front or via smartphone with NFC technology and App) and integrated functions.

Every version is available in double variant with auxiliary supply voltage 24VAC/DC or 100...240VAC to suit every need based on the voltage present in the plant.

## BASIC VERSION ADXNB

The soft starter ADXNB is the ideal solution for those who need a soft starter with basic functions and extremely simple to configure. The configuration requires the settings of only 3 parameters adjusted with potentiometers present on the front of the soft starter.

The general characteristics are the following:

- Built-in bypass relay
- Programming with potentiometers on front: starting voltage, acceleration ramp and deceleration ramp
- Voltage ramp startup
- Free wheel or controlled stop
- Integrated overtemperature protection
- 2 built-in relay outputs with normally open NO contact, with function line contactor control (Run) and TOR (Top Of Ramp)
- Suitable for the control of pumps, fans, blowers, conveyor belts, compressors and general purpose applications.

## NFC VERSION ADXNF

The soft starter ADXNF is a version provided with NFC connectivity for the programming via smartphone and LOVATO **NFC** App. The default settings make it ready to use for the control of scroll compressors, typically used in air conditioning systems, refrigerators and heating pumps but the parameters can be modified via smartphone and LOVATO **NFC** App for the control of every kind of application, like pumps, fans, conveyor belts, etc.

It is also possible to configure a password for the lock of the settings.

The general characteristics are the following:

- Built-in bypass relay
- Programming with smartphone with NFC technology and LOVATO **NFC** App, available for Android and iOS smart devices, freely downloadable from Google Play Store and App Store.
- Default settings with pre-configured parameters for the control of scroll compressors
- Voltage ramp startup
- Free wheel or controlled stop
- Integrated overtemperature protection
- 2 built-in relay outputs with normally open NO contact with programmable function line contactor control (Run), TOR-Top Of Ramp and alarm
- Suitable for the control of scroll compressors (air conditioning systems, refrigerators and heating pumps), pumps, fans, blowers, conveyor belts, compressors and general purpose applications with parameters settings via NFC connectivity and LOVATO **NFC** App.

## NFC version ADXNF... type



ADXNF...



**NFC**

**new**

Order code	IEC rated starter current le	Rated motor power ≤40°C			Qty per pkg	Unit Price
		400V	400-480V	550-600V		
	[A]	[kW]	[HP]	[HP]	n°	

NFC connectivity for parameters setting with smartphone and App.

Built-in bypass relay and 2 relay outputs.  
Rated operational voltage 208...600VAC  
Auxiliary supply Us 100...240VAC.

<b>ADXNF006</b>	6	2.2	3	5	1	<b>\$129.00</b>
<b>ADXNF012</b>	12	5.5	7.5	10	1	<b>\$159.00</b>
<b>ADXNF018</b>	18	7.5	10	15	1	<b>\$179.00</b>
<b>ADXNF025</b>	25	11	15	20	1	<b>\$189.00</b>
<b>ADXNF030</b>	30	15	20	25	1	<b>\$239.00</b>
<b>ADXNF038</b>	38	18.5	25	30	1	<b>\$299.00</b>
<b>ADXNF045</b>	45	22	30	40	1	<b>\$379.00</b>

Auxiliary supply Us 24VAC/DC.

<b>ADXNF00624</b>	6	2.2	3	5	1	<b>\$139.00</b>
<b>ADXNF01224</b>	12	5.5	7.5	10	1	<b>\$169.00</b>
<b>ADXNF01824</b>	18	7.5	10	15	1	<b>\$189.00</b>
<b>ADXNF02524</b>	25	11	15	20	1	<b>\$199.00</b>
<b>ADXNF03024</b>	30	15	20	25	1	<b>\$249.00</b>
<b>ADXNF03824</b>	38	18.5	25	30	1	<b>\$309.00</b>
<b>ADXNF04524</b>	45	22	30	40	1	<b>\$389.00</b>

**ALWAYS INDICATE LOVATO USA PROMO 2023 WHEN PLACING ORDERS.**

For authorized Lovato Electric partner distributors only. Prices are subject to change without notice.

● **Soft Starters - Two phase control  
ADXL...type**



# SIMPLE! INTELLIGENT! EFFICIENT!

- Easy programming in 4 steps only
- Programming via NFC or WiFi
- APP for smart phone or tablet (free)
- Works from 208 to 600VAC
- Auxiliary supply from 120 to 240VAC
- Built-in bypass relay
- Optional RS485 communication
- Modbus-ASCII, Modbus-RTU, Modbus-TCP
- Programmable inputs and outputs

Item #	FLA (A)	208V HP	220-240V HP	380-415V HP	440-480V HP	550-600V HP	Unit Price
ADXL0018600	18	5	5	10	10	15	<b>\$399.00</b>
ADXL0030600	28	10	10	15	20	25	<b>\$449.00</b>
ADXL0045600	44	10	15	25	30	40	<b>\$499.00</b>
ADXL0060600	60	20	20	30	40	50	<b>\$549.00</b>
ADXL0075600	75	25	25	40	50	60	<b>\$649.00</b>
ADXL0085600	83	25	30	50	60	75	<b>\$749.00</b>
ADXL0115600	114	40	40	60	75	100	<b>\$849.00</b>
ADXL0135600UL	130	40	50	75	100	125	<b>\$1199.00</b>
ADXL0162600UL	156	50	60	75	125	150	<b>\$1349.00</b>
ADXL0195600UL	196	60	60	100	150	150	<b>\$1499.00</b>
ADXL0250600UL	248	75	100	150	200	250	<b>\$1849.00</b>
ADXL0320600UL	320	100	125	200	250	300	<b>\$2149.00</b>

## ● Monoblock Pilot Lights L.E.D. Type



<b>LPML</b>	
Voltage ↑	Colour ↑
12VAC/DC	<b>A 1</b> ■
24VAC/DC	<b>B 3</b> ■
48VAC/DC	<b>D 4</b> ■
110VAC	<b>E 5</b> ■
230VAC	<b>M 6</b> ■
	<b>7</b> □

**\$5.50**

Protection Degree : As per UL: 3R, 4/12, 4X / As per IEC: IP66, IP67, IP69K

## ● Monoblock Potentiometers



<b>L PCPA</b>	
<b>001</b>	1 kΩ
<b>002</b>	2.5 kΩ
<b>005</b>	5 kΩ
<b>010</b>	10 kΩ
<b>050</b>	50 kΩ
<b>100</b>	100 kΩ
<b>500</b>	500 kΩ

**\$27.50**

Protection Degree : NEMA 4X (IP69K)

## ● Pulse and Steady Tone Monoblock Buzzers



IP40: 90dB sound intensity at 10cm.  
IP66: 80dB sound intensity at 10cm.

**\$21.00**

**\$22.00**

Supply voltage  
9-15VAC/DC  
18-30VAC/DC  
85-140VAC/DC  
185-265VAC/DC

**IP40**  
**LPCZSA**  
**LPCZSB**  
**LPCZSE**  
**LPCZSM**

Supply voltage  
9-15VAC/DC  
18-30VAC/DC  
85-140VAC/DC  
185-265VAC/DC

**IP66 Type 4X**  
**LPCZSAIP**  
**LPCZSBIP**  
**LPCZSEIP**  
**LPCZSMIP**

## ● Communication Interfaces



<b>LPCD</b>	
USB <b>01</b>	3.0 A/A connection type
USB <b>03</b>	3.0 A/B connection type
USB <b>05</b>	3.0 B/A connection type
RJ45 <b>06</b>	Ethernet connection type (shielded)

**\$19.00**

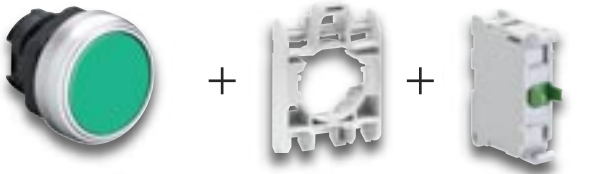
Protection Degree: Type 4X (with cap mounted)

## LPC Series

### 22mm chromed plastic Push Button Kits

Degree of protection NEMA 4X (IP69K)

Push button      Contact holder      NO contact



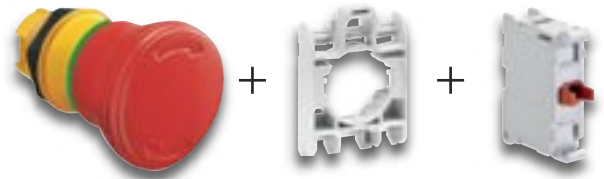
LPCB102KIT (black)      LPCB105KIT (yellow)  
 LPCB103KIT (green)      LPCB106KIT (blue)  
 LPCB104KIT (red)      LPCB108KIT (white)  
 LPCB104KIT-NC (red, with NC contact)

**\$6.50**

### 22mm chromed plastic E-Stop Kit

Degree of protection NEMA 4X (IP69K)

E-stop twist to release      Contact holder      NC contact



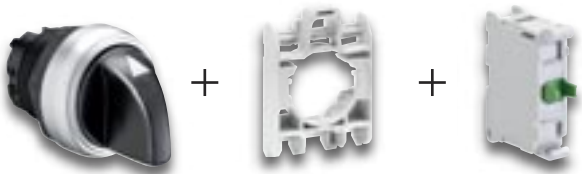
**LPCB6644KIT**

**\$16.50**

### 22mm chromed plastic Selector Kits

Degree of protection NEMA 4X (IP69K)

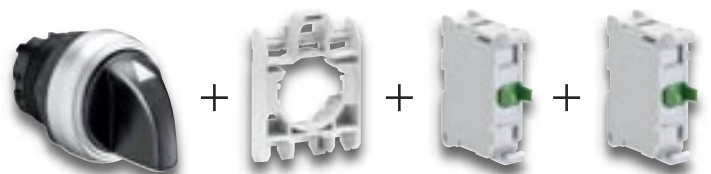
2 position selector      Contact holder      NO contact



**LPCS120KIT**

**\$10.00**

3 position selector      Contact holder      NO contact      NO contact



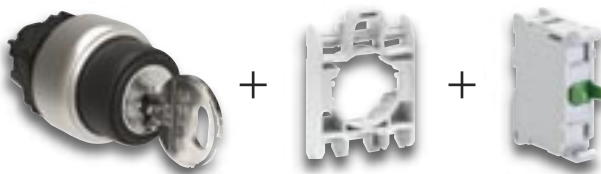
**LPCS130KIT**

**\$13.00**

### 22mm chromed plastic Key Selector Kit

Degree of protection NEMA 4X (IP69K)

2 position selector      Contact holder      NO contact



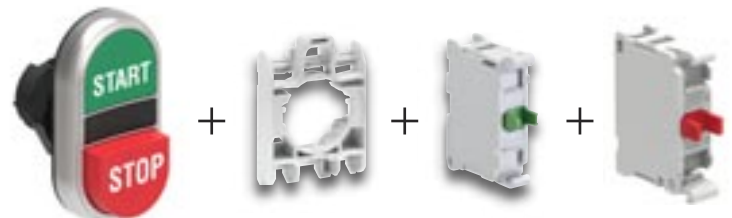
**LPCS320KIT**

**\$16.50**

### 22mm chromed plastic Double-Touch Kit

Degree of protection NEMA 4X (IP69K)

Double-Touch Actuator      Contact holder      NO contact      NC contact



**LPCB7233KIT**

**\$17.50**

## LPF Series

### 30mm Flat Metal Push Button Kits

Degree of protection NEMA 4X (IP69K)

Push button



+

Contact holder



+

NO contact



**LPFB102KIT** (black)  
**LPFB103KIT** (green)  
**LPFB104KIT** (red)  
**LPFB104KIT-NC** (red, with NC contact)

**LPFB105KIT** (yellow)  
**LPFB106KIT** (blue)  
**LPFB108KIT** (white)

**\$12.00**

### 30mm Flat Metal Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector



+

Contact holder



+

NO contact



**LPFS120KIT**

**\$21.00**

3 position selector



+

Contact holder



+

NO contact



+

NO contact



**LPFS130KIT**

**\$25.00**

### 30mm Flat Metal Key Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector



+

Contact holder



+

NO contact



**LPFS320KIT**

**\$42.00**

3 position selector



+

Contact holder



+

NO contact



+

NO contact



**LPFS330KIT**

**\$49.00**

## LPS Series

### 22mm Metal Push Button Kits

Degree of protection NEMA 4X (IP69K)

Push button

Contact holder

NO contact



LPSB102KIT (black)    LPSB105KIT (yellow)  
 LPSB103KIT (green)    LPSB106KIT (blue)  
 LPSB104KIT (red)    LPSB108KIT (white)  
 LPSB104KIT-NC (red, with NC contact)

**\$10.00**

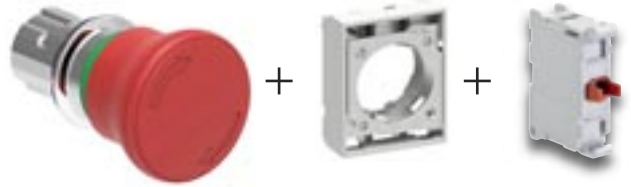
### 22mm Metal E-Stop Kit

Degree of protection NEMA 4X (IP69K)

E-stop  
twist to release

Contact holder

NC contact



**LPSB6644KIT**

**\$26.00**

### 22mm Metal Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector

Contact holder

NO contact



**LPSS120KIT**

**\$16.00**

3 position selector

Contact holder

NO contact

NO contact



**LPSS130KIT**

**\$20.00**

### 22mm Metal Key Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector

Contact holder

NO contact



**LPSS320KIT**

**\$30.00**

3 position selector

Contact holder

NO contact

NO contact



**LPSS330KIT**

**\$35.00**



## LPS...D30 Series

### 30mm Metal Push Button Kits

Degree of protection NEMA 4X (IP69K)

Push button

Contact holder

NO contact



LPSB102D30KIT (black)    LPSB105D30KIT (yellow)  
 LPSB103D30KIT (green)    LPSB106D30KIT (blue)  
 LPSB104D30KIT (red)    LPSB108D30KIT (white)  
 LPSB104D30KIT-NC (red, with NC contact)

**\$17.00**

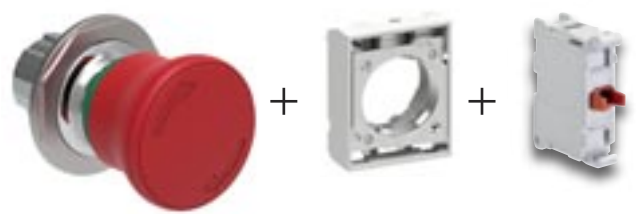
### 30mm Metal E-Stop Kit

Degree of protection NEMA 4X (IP69K)

E-stop twist to release

Contact holder

NC contact



LPSB6644D30KIT

**\$33.00**

### 30mm Metal Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector

Contact holder

NO contact



LPSS120D30KIT

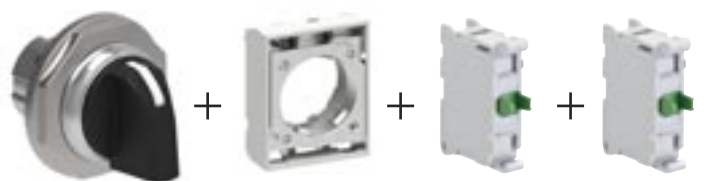
**\$23.00**

3 position selector

Contact holder

NO contact

NO contact



LPSS130D30KIT

**\$27.00**

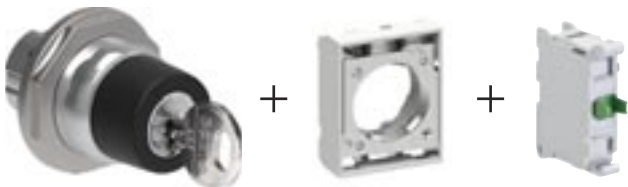
### 30mm Metal Key Selector Kits

Degree of protection NEMA 4X (IP69K)

2 position selector

Contact holder

NO contact



LPSS320D30KIT

**\$38.00**

3 position selector

Contact holder

NO contact

NO contact



LPSS330D30KIT

**\$43.00**

● **LPZ (Polycarbonate) Control Stations IP66, IP67 and IP69K (Type 4X)**



Item #	Description	Cover	Unit Price
LPZP1A5	1 hole	Yellow	<b>\$9.00</b>
LPZP1A5P	1 hole with shroud	Yellow	<b>\$17.50</b>
LPZP1A8	1 hole	Grey	<b>\$9.00</b>
LPZP2A5	2 holes	Yellow	<b>\$11.00</b>
LPZP2A8	2 holes	Grey	<b>\$11.00</b>
LPZP3A8	3 hole	Grey	<b>\$13.00</b>
LPZP4A8	4 hole	Grey	<b>\$19.00</b>
LPZP5A8	5 hole	Grey	<b>\$25.00</b>
LPZP6A8	6 hole	Grey	<b>\$32.00</b>

● **LPZM (Metal) Control Stations IP66, IP67 (Type 4X)**



Item #	Description	Cover	Unit Price
LPZM1A5	1 hole	Yellow	<b>\$16.50</b>
LPZM1A5P	1 hole with shroud	Yellow	<b>\$23.00</b>
LPZM1A8	1 hole	Grey	<b>\$16.50</b>
LPZM2A5	2 holes	Yellow	<b>\$21.00</b>
LPZM2A8	2 holes	Grey	<b>\$21.00</b>
LPZM3A8	3 holes	Grey	<b>\$24.00</b>
LPZM4A8	4 holes	Grey	<b>\$35.00</b>
LPZM5A8	5 holes	Grey	<b>\$46.00</b>
LPZM6A8	6 holes	Grey	<b>\$57.00</b>

● **Adapter for Mounting 22mm Buttons on DIN Rail 35MM**



**LPXDIN**

**\$5.50**

● **E-Stop Control Station in Polycarbonate Enclosure**

Degree of protection NEMA 4X (IP69K)  
Twist to release e-stop with 1NC contact in enclosure.

**LPZP1B503**

**\$25.00**



# Signal Tower Lights 50mm

## Ø50mm/1.97" LTN... series UL Type 4



LTN50ML1



LTN50MSL



LTN50MSH



LTN50MW024



LTN50C



LTN50BP1



LTN50BM1



LTN50BP2



LTN50BM2



LTN50BP3



LTN50BM3



LTN50P100



LTN50P100T

Order code	Description	Qty per pkg n°	Unit Price
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Blinking or steady light modules.  
Integrated LED lamp.

LTN50ML1	Orange	1	\$21.00
LTN50ML3	Green	1	\$21.00
LTN50ML4	Red	1	\$21.00
LTN50ML6	Blue	1	\$21.00
LTN50ML8	White	1	\$21.00

Continuous sound modules.

LTN50MSL	85dB. IP65, Type 4	1	\$22.00
LTN50MSH	100dB. IP20	1	\$22.00

Wiring modules.

LTN50MW024	12...24VDC	1	\$32.00
LTN50MW230	110...230VAC	1	\$54.00

Top cover.

LTN50C	To be used only if sound module is not present	5	\$2.25
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Fixing bases.

LTN50BP1	Horizontal surface mounting, black plastic	1	\$5.00
LTN50BP2	Wall mounting, grey plastic	1	\$5.50
LTN50BP3	Horizontal surface or wall mounting, black plastic	1	\$10.00
LTN50BM1	Horizontal surface mounting, metal	1	\$6.75
LTN50BM2	Wall mounting, metal	1	\$7.50
LTN50BM3	Horizontal surface or wall mounting, metal	1	\$13.25

Extension tubes.

LTN50P100	100mm/3.94", metal	5	\$4.50
LTN50P250	250mm/9.84", metal	5	\$7.50
LTN50P400	400mm/15.75", metal	5	\$10.00
LTN50P100T	100mm/3.94", metal with threaded end	5	\$4.75
LTN50P250T	250mm/9.84", metal with threaded end	5	\$7.75
LTN50P400T	400mm/15.75", metal with threaded end	5	\$10.25

① For light towers including both white light module and sound modules please check the wiring diagram at page 8-17.

② For fixing base LTN50BP2 the extension tube LTNP... without threaded end has to be used.

③ Extension tubes with threaded end LTNP...T have to be used for all the fixing bases except for LTN50BP2.

### General characteristics

Signal towers are fundamental elements in manufacturing processes for the visual and audible signaling of the system status.

The signal towers can be assembled by stacking up to 5 light modules or 4 light modules and 1 sound module.

### Technical characteristics

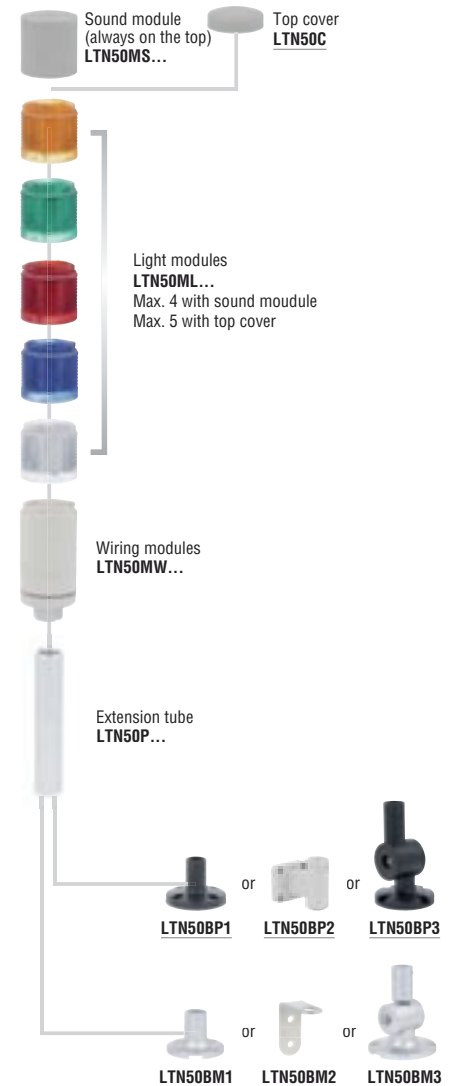
- Maximum operational voltage: 26.4VDC - 240VAC
- Light, sound and wiring modules consumption:
  - light modules: 1.2VA
  - sound modules: 1.7VA
  - wiring modules: 1VA
- Number of stackable modules: 5
- Connections: screw clamp terminals and conductor section 0.25...1.5mm<sup>2</sup>/AWG16...24
- Operating temperature: -30...+50°C
- IEC degree of protection: IP65 for light modules, top cover and sound module LTN50MSL.

### Certifications and compliance

Certifications obtained: cULus, EAC.

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

### Combinations



# Signal Tower Lights 70mm

## Ø70mm/2.75" LTN... series UL Type 4



LTN70ML3



LTN70MSL



LTN70MSH



LTN70MW024



LTN70C



LTN70BP1



LTN70BM1



LTN70BP2



LTN70BM2



LTN70BP3



LTN70BM3



LTN70P100



LTN70P100T

Order code	Description	Qty per pkg	Unit Price
		n°	

Blinking or steady light modules.  
Integrated LED lamp.

LTN70ML1	Orange	1	\$24.00
LTN70ML3	Green	1	\$24.00
LTN70ML4	Red	1	\$24.00
LTN70ML6	Blue	1	\$24.00
LTN70ML8	White	1	\$24.00

Continuous sound modules.

LTN70MSL	85dB. IP65, Type 4	1	\$25.00
LTN70MSH	100dB. IP20	1	\$25.00

Wiring modules.

LTN70MW024	12...24VDC	1	\$43.00
LTN70MW230	110...230VAC	1	\$65.00

Top cover.

LTN70C	To be used only if sound module is not present	5	\$2.50
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Fixing bases.

LTN70BP1	Horizontal surface mounting, black plastic	1	\$5.50
LTN70BP2	Wall mounting, grey plastic	1	\$6.00
LTN70BP3	Horizontal surface or wall mounting, black plastic	1	\$11.00
LTN70BM1	Horizontal surface mounting, metal	1	\$8.00
LTN70BM2	Wall mounting, metal	1	\$9.00
LTN70BM3	Horizontal surface or wall mounting, metal	1	\$15.50

Extension tubes.

LTN70P100	100mm/3.94", metal	5	\$5.50
LTN70P250	250mm/9.84", metal	5	\$9.00
LTN70P400	400mm/15.75", metal	5	\$11.00
LTN70P100T	100mm/3.94", metal with threaded end	5	\$6.00
LTN70P250T	250mm/9.84", metal with threaded end	5	\$9.50
LTN70P400T	400mm/15.75", metal with threaded end	5	\$11.50

① For light towers including both white light module and sound modules please check the wiring diagram at page 8-17.

② For fixing base LTN70BP2 the extension tube LTNP... without threaded end has to be used.

③ Extension tubes with threaded end LTNP...T have to be used for all the fixing bases except for LTN70BP2.

### General characteristics

The signal towers can be assembled by stacking up to 5 light modules or 4 light modules and 1 sound module.

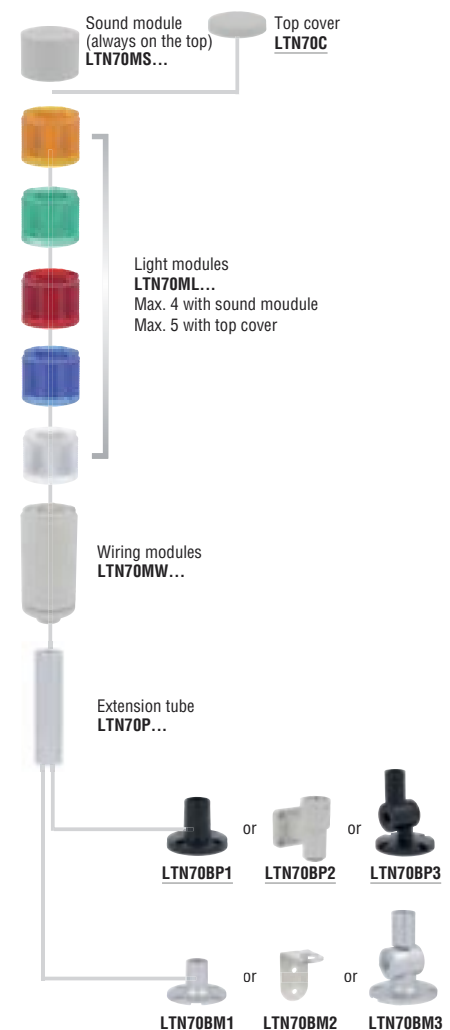
### Technical characteristics

- Maximum operational voltage: 26.4VDC - 240VAC
- Light, sound and wiring modules consumption:
  - light modules: 1.2VA
  - sound modules: 1.7VA
  - wiring modules: 1VA
- Number of stackable modules: 5
- Connections: screw clamp terminals and conductor section 0.25...1.5mm<sup>2</sup>/AWG16...24
- Operating temperature: -30...+50°C
- IEC degree of protection: IP65 for light modules, top cover and sound module LTN70MSL.

### Certifications and compliance

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

### Combinations



## ● Non-metallic Enclosed Disconnects



32A



63A



100A

- Padlockable handle (for 3 padlocks in OFF position)
- Degree of protection: IP65; Nema type 4X
- Rated insulation voltage Ui: 1000VAC
- Rated as motor disconnect
- Also rated as manual motor controller

# GAZ032UL

**\$39.00**

# GAZ063SAUL

**\$79.00**

# GAZ100UL

**\$149.00**

## ● Disconnect Kits with Selector Type Handle Type 4X (32A, 63A, 100A)



+



+



Kit includes the following:

- 32A, 63A or 100A disconnect rated as motor disconnect
- Shaft 200mm length
- Padlockable GAX63 handle, ring-type fixing, Nema type 4X

32A (UL508):  
# GA032KIT

**\$29.00**

63A (UL98):  
# GA063KIT

**\$39.00**

100A (UL98):  
# GA100KIT

**\$59.00**

## ● Disconnect Kits with Pistol Handle Type 4X (30A, 63A or 100A)



+



+



Kit includes the following:

- 30A, 63A, 100A disconnect rated UL 98
- GAX7200AN Shaft 200mm length  
GAX60B adapter
- Padlockable and defeatable GAX66N pistol handle, Nema Type 4X.

30A (UL98):  
#GA030PKIT

**\$49.00**

63A (UL98):  
#GA063PKIT

**\$59.00**

100A (UL98):  
#GA100PKIT

**\$79.00**

## ● Non-Fused Disconnect Kits - GL Series



**200A:**  
#GL0200C1ULPKIT

**\$249.00**

UL98 Non-Fused Disconnect Kit with Pistol Handle Type 4X (200A, 400A)

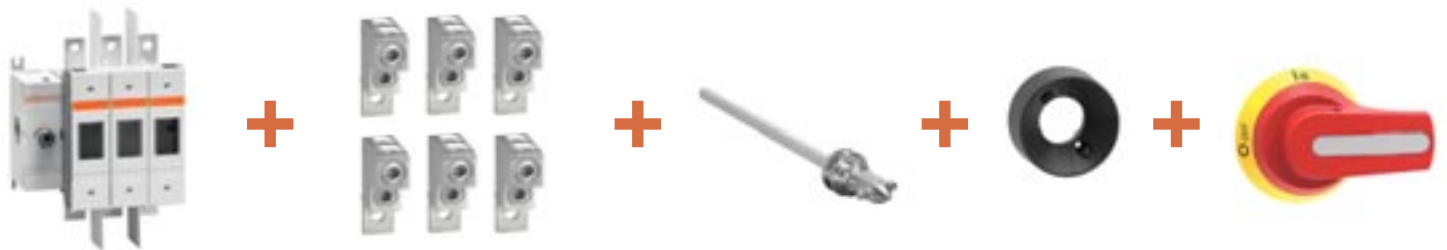
**400A:**  
#GL0400C1ULPKIT

**\$499.00**

Kit includes the following:

- UL 98 non-fused disconnect switch
- GLX7300S10 shaft, 300mm length
- GLX00 shaft guide
- Pistol handle, padlockable, defeatable, Type 4X
- Includes 6 terminal lugs

## ● Fused Disconnect Kits - GM Series



UL 98 Fused Disconnect Kits with Pistol Handle Type 4X (30A, 60A, 100A, 200A)

Kit includes the following:

- UL 98 fused disconnect switch
- GMX7300S06 shaft, 300mm length
- GLX00 shaft guide
- GAX66N pistol handle, padlockable, defeatable, Type 4X
- Terminal lug kit includes 6 lugs (100A & 200A only)

**30A: #GMFC030C12PKIT**

**\$109.00**

**30A: #GMFJ030C12PKIT**

**\$109.00**

**60A: #GMFJ060C03PKIT**

**\$149.00**

**100A: #GMFJ100C03PKIT**

**\$199.00**

**200A: #GMFJ200C03PKIT**

**\$449.00**

## ● Miniature Circuit Breakers Supplementary Protection (UL1077/CSA: C22.2 N°235)



Item #	Description	Qty/ pkg	Unit Price
P1MB1PC01	1 POLE - CURVE C - 1A	12	<b>\$9.00</b>
P1MB1PC02	1 POLE - CURVE C - 2A	12	<b>\$9.00</b>
P1MB1PC03	1 POLE - CURVE C - 3A	12	<b>\$9.00</b>
P1MB1PC04	1 POLE - CURVE C - 4A	12	<b>\$9.00</b>
P1MB1PC06	1 POLE - CURVE C - 6A	12	<b>\$9.00</b>
P1MB1PC08	1 POLE - CURVE C - 8A	12	<b>\$9.00</b>
P1MB1PC10	1 POLE - CURVE C - 10A	12	<b>\$9.00</b>
P1MB1PC13	1 POLE - CURVE C - 13A	12	<b>\$9.00</b>
P1MB1PC16	1 POLE - CURVE C - 16A	12	<b>\$9.00</b>
P1MB1PC20	1 POLE - CURVE C - 20A	12	<b>\$9.00</b>
P1MB1PC25	1 POLE - CURVE C - 25A	12	<b>\$9.00</b>
P1MB1PC32	1 POLE - CURVE C - 32A	12	<b>\$9.00</b>
P1MB1PC40	1 POLE - CURVE C - 40A	12	<b>\$10.00</b>
P1MB1PC50	1 POLE - CURVE C - 50A	12	<b>\$10.00</b>
P1MB1PC63	1 POLE - CURVE C - 63A	12	<b>\$10.00</b>



P1MB3PC01	3 POLES - CURVE C - 1A	4	<b>\$27.00</b>
P1MB3PC02	3 POLES - CURVE C - 2A	4	<b>\$27.00</b>
P1MB3PC03	3 POLES - CURVE C - 3A	4	<b>\$27.00</b>
P1MB3PC04	3 POLES - CURVE C - 4A	4	<b>\$27.00</b>
P1MB3PC06	3 POLES - CURVE C - 6A	4	<b>\$27.00</b>
P1MB3PC08	3 POLES - CURVE C - 8A	4	<b>\$27.00</b>
P1MB3PC10	3 POLES - CURVE C - 10A	4	<b>\$27.00</b>
P1MB3PC13	3 POLES - CURVE C - 13A	4	<b>\$27.00</b>
P1MB3PC16	3 POLES - CURVE C - 16A	4	<b>\$27.00</b>
P1MB3PC20	3 POLES - CURVE C - 20A	4	<b>\$27.00</b>
P1MB3PC25	3 POLES - CURVE C - 25A	4	<b>\$27.00</b>
P1MB3PC32	3 POLES - CURVE C - 32A	4	<b>\$27.00</b>
P1MB3PC40	3 POLES - CURVE C - 40A	4	<b>\$30.00</b>
P1MB3PC50	3 POLES - CURVE C - 50A	4	<b>\$30.00</b>
P1MB3PC63	3 POLES - CURVE C - 63A	4	<b>\$30.00</b>

**Notes: Items are sold by package only.** This product is cURus.

Pricing is the same for the equivalent B & D curve versions.

2 pole versions are available at a promo level price.

## ● UL RATED BUS BARS FOR UL 1077 MINIATURE CIRCUIT BREAKERS



Item #	Description	Qty/pkg	Unit Price
1P18K57S0U50	Single pole supply bus bar	10	<b>\$22.00</b>
2P18L56S0U50	Two pole supply bus bar	10	<b>\$44.00</b>
3P18L57S0U50	Three pole supply bus bar	10	<b>\$66.00</b>
BRB5W	Kit of 5 insulating caps for unused terminals	10	<b>\$2.50</b>
A69	End cap for 1P18K57S0U50	50	<b>\$1.50</b>
A7	End cap for 2P18L56S0U50 & 3P18L57S0U50	50	<b>\$1.50</b>
802150S	Single pole terminal block for 1P18K57S0U50 (10-1 AWG)	25	<b>\$5.25</b>
802180	Single pole terminal block for 2P18L56S0U50 & 3P18L57S0U50 (10-1 AWG)	10	<b>\$5.25</b>

\*Bus bars are cuttable

## ● Miniature Circuit Breakers Branch Protection (UL489/CSA: C22.2 N°5)



Item #	Description	Qty/pkg	Unit Price
P1MBUH1PC01	1 POLE - CURVE C - 1A	12	<b>\$15.00</b>
P1MBUH1PC01V6	1 POLE - CURVE C - 1.6A	12	<b>\$15.00</b>
P1MBUH1PC02	1 POLE - CURVE C - 2A	12	<b>\$15.00</b>
P1MBUH1PC03	1 POLE - CURVE C - 3A	12	<b>\$15.00</b>
P1MBUH1PC04	1 POLE - CURVE C - 4A	12	<b>\$15.00</b>
P1MBUH1PC05	1 POLE - CURVE C - 5A	12	<b>\$15.00</b>
P1MBUH1PC06	1 POLE - CURVE C - 6A	12	<b>\$15.00</b>
P1MBUH1PC07	1 POLE - CURVE C - 7A	12	<b>\$15.00</b>
P1MBUH1PC08	1 POLE - CURVE C - 8A	12	<b>\$15.00</b>
P1MBUH1PC10	1 POLE - CURVE C - 10A	12	<b>\$15.00</b>
P1MBUH1PC12	1 POLE - CURVE C - 12A	12	<b>\$15.00</b>
P1MBUH1PC13	1 POLE - CURVE C - 13A	12	<b>\$15.00</b>
P1MBUH1PC15	1 POLE - CURVE C - 15A	12	<b>\$15.00</b>
P1MBUH1PC16	1 POLE - CURVE C - 16A	12	<b>\$15.00</b>
P1MBUH1PC20	1 POLE - CURVE C - 20A	12	<b>\$15.00</b>
P1MBUH1PC25	1 POLE - CURVE C - 25A	12	<b>\$15.00</b>
P1MBUH1PC30	1 POLE - CURVE C - 30A	12	<b>\$15.00</b>
P1MBUH1PC32	1 POLE - CURVE C - 32A	12	<b>\$15.00</b>
P1MBUL1PC35	1 POLE - CURVE C - 35A	12	<b>\$16.00</b>
P1MBUL1PC40	1 POLE - CURVE C - 40A	12	<b>\$16.00</b>
P1MBUL1PC50	1 POLE - CURVE C - 50A	12	<b>\$16.00</b>
P1MBUL1PC60	1 POLE - CURVE C - 60A	12	<b>\$16.00</b>
P1MBUL1PC63	1 POLE - CURVE C - 63A	12	<b>\$16.00</b>



P1MBUH3PC01	3 POLES - CURVE C - 1A	4	<b>\$45.00</b>
P1MBUH3PC01V6	3 POLES - CURVE C - 1.6A	4	<b>\$45.00</b>
P1MBUH3PC02	3 POLES - CURVE C - 2A	4	<b>\$45.00</b>
P1MBUH3PC03	3 POLES - CURVE C - 3A	4	<b>\$45.00</b>
P1MBUH3PC04	3 POLES - CURVE C - 4A	4	<b>\$45.00</b>
P1MBUH3PC05	3 POLES - CURVE C - 5A	4	<b>\$45.00</b>
P1MBUH3PC06	3 POLES - CURVE C - 6A	4	<b>\$45.00</b>
P1MBUH3PC07	3 POLES - CURVE C - 7A	4	<b>\$45.00</b>
P1MBUH3PC08	3 POLES - CURVE C - 8A	4	<b>\$45.00</b>
P1MBUH3PC10	3 POLES - CURVE C - 10A	4	<b>\$45.00</b>
P1MBUH3PC12	3 POLES - CURVE C - 12A	4	<b>\$45.00</b>
P1MBUH3PC13	3 POLES - CURVE C - 13A	4	<b>\$45.00</b>
P1MBUH3PC15	3 POLES - CURVE C - 15A	4	<b>\$45.00</b>
P1MBUH3PC16	3 POLES - CURVE C - 16A	4	<b>\$45.00</b>
P1MBUH3PC20	3 POLES - CURVE C - 20A	4	<b>\$45.00</b>
P1MBUH3PC25	3 POLES - CURVE C - 25A	4	<b>\$45.00</b>
P1MBUH3PC30	3 POLES - CURVE C - 30A	4	<b>\$45.00</b>
P1MBUH3PC32	3 POLES - CURVE C - 32A	4	<b>\$45.00</b>
P1MBUL3PC35	3 POLES - CURVE C - 35A	4	<b>\$48.00</b>
P1MBUL3PC40	3 POLES - CURVE C - 40A	4	<b>\$48.00</b>
P1MBUL3PC50	3 POLES - CURVE C - 50A	4	<b>\$48.00</b>
P1MBUL3PC60	3 POLES - CURVE C - 60A	4	<b>\$48.00</b>
P1MBUL3PC63	3 POLES - CURVE C - 63A	4	<b>\$48.00</b>

Items are sold by package only.

Pricing is the same for the equivalent D curve versions.

2 pole versions are available at a promo level price.

## ● UL RATED BUS BARS FOR UL 489 MINIATURE CIRCUIT BREAKERS



Item #	Description	Qty/pkg	Unit Price
ULC157A18A	Single pole supply bus bar	10	<b>\$62.00</b>
ULC256A18A	Two pole supply bus bar	10	<b>\$70.00</b>
ULC357A18A	Three pole supply bus bar	10	<b>\$80.00</b>
BRU3V	Kit of 3 insulating caps for unused terminals	10	<b>\$2.50</b>
A68	End cap for all ULC busbars	50	<b>\$1.50</b>
802307	Single pole terminal block for all ULC busbars (14-2 AWG)	10	<b>\$7.00</b>

\*Bus bars are cuttable



## ● Fuse Holders



- Maximum rated voltage  $U_e$  690VAC
- Operational voltage for status light indicator 120...690 VAC
- Compact sizes compliant with standards for electrical equipment
- UL and CSA certified versions

Item #	Description	Status Indicator	Qty/ pkg	Unit Price
<b>MIDGET FUSE HOLDERS (10X38)</b>				
FB01F1P	Fuse holder 1 pole 690V 32A	No	12	<b>\$2.00</b>
FB01F1PL	Fuse holder 1 pole 690V 32A	Yes	12	<b>\$3.75</b>
FB01F2P	Fuse holder 2 poles 690V 32A	No	6	<b>\$4.25</b>
FB01F3P	Fuse holder 3 poles 690V 32A	No	4	<b>\$6.50</b>

<b>CC FUSE HOLDERS (10X38)</b>				
FB01G1P	Fuse holder 1 pole 600V 30A	No	12	<b>\$2.25</b>
FB01G1PL	Fuse holder 1 pole 600V 30A	Yes	12	<b>\$3.75</b>
FB01G2P	Fuse holder 2 poles 600V 30A	No	6	<b>\$5.00</b>
FB01G3P	Fuse holder 3 poles 600V 30A	No	4	<b>\$7.50</b>

**Note:**  
Items are sold by package only.

## ● Switching Power Supplies



Item #	Description	Output Voltage DC	Amperage DC	Output Power	Unit Price
<b>PSE series; compact, economy DIN rail mount versions</b>					
PSE103024	Single Phase	24	1.25A	30W	<b>\$29.75</b>
PSE105024	Single Phase	24	2.1A	50W	<b>\$34.00</b>
PSE107224	Single Phase	24	3.0A	72W	<b>\$38.50</b>
PSE110024	Single Phase	24	4.2A	100W	<b>\$49.50</b>



<b>PSL series; DIN rail mount versions</b>					
PSL101824	Single Phase	24	0.75A	18W	<b>\$29.75</b>
PSL103024	Single Phase	24	1.25A	30W	<b>\$32.00</b>
PSL106024	Single Phase	24	2.5A	60W	<b>\$36.50</b>
PSL110024	Single Phase	24	4.2A	100W	<b>\$52.00</b>
PSL112024	Single Phase	24	5A	120W	<b>\$56.00</b>
PSL124024	Single Phase	24	10A	240W	<b>\$82.50</b>
PSL148024	Single Phase	24	20A	480W	<b>\$159.00</b>
PSL312024	Three Phase	24	5A	120W	<b>\$69.00</b>
PSL324024	Three Phase	24	10A	240W	<b>\$99.00</b>
PSL348024	Three Phase	24	20A	480W	<b>\$149.00</b>
PSL396024	Three Phase	24	40A	960W	<b>\$249.00</b>

## Multifunction Timer



**\$26.50**

**TMM1**

- Electronic time relay, multifunction, multiscale, multivoltage
- Auxiliary supply voltage: **12...240VAC/DC**
- Time range from 0.1 second to 10 days
- 1 relay output SPDT
- Suitable for fixing on 35mm DIN rail or direct screw mounting.

## Multifunction Timer with NFC



**\$33.00**

**TMM1 NFC**

- Electronic time relay, multifunction, multiscale, multivoltage
- Auxiliary supply voltage: **12...240VAC/DC**
- Time of scale range from **100ms to 999 days**
- **40 functions** (included are the functions of TMM1, TMP and TMPL)
- Possibility to work also as counter
- **1 relay output** with **changeover contact**
- **Command input** for the **enabling of the function** or to pause the timing
- Programmable with **NFC technology** and **App Lovato** (free download from Google Play Store)
- Modular DIN 43880 housing (**1 module**), suitable for fixing on 35mm DIN rail or direct screw mounting.

## Voltage Monitoring Relays



**\$54.00**

**PMV20A575** (208-575VAC)

- Phase Loss & Phase Sequence Relay
- Rated Voltage: 208-575VAC
- 1 relay output SPDT
- Suitable for fixing on 35mm DIN rail or direct screw mounting.

## Voltage Monitoring Relays with NFC



**\$129.00**

**PMV95N A240 NFC:** 208...240VAC  
**PMV95N A575 NFC:** 380...575VAC

- Multifunction voltage and frequency monitoring relay for **three-phase systems with or without neutral**
- Rated voltage to control (phase-to-phase) 50/60Hz:
- **1 relay output** with changeover contact 8A 250VAC
- **Control functions:**
  - Minimum and maximum AC voltage
  - Minimum and maximum frequency
  - Phase loss, neutral loss
  - Incorrect phase sequence
  - Asymmetry
- Programmable with **NFC technology** through **LOVATO App**
- Modular DIN housing, **2 modules**
- Suitable for fixing on 35mm DIN rail or direct screw mounting.

## General Purpose Relays

Note: Items are sold in package quantity only.



Part Number	Control Voltage	Contacts	Rated Current	Unit Price	Package Quantity
HRA101CE024	24VAC/DC	1 C/O	6A	<b>\$10.00</b>	10
<i>(relay and socket assembled)</i>					
HR101CE024	24VAC/DC	1 C/O	6A	<b>\$4.50</b>	20
HR201AS024	24VDC	1 SSR	2A (AC)	<b>\$15.50</b>	10
HR201DS024	24VDC	1 SSR	4A (DC)	<b>\$16.00</b>	10
HR301CD024	24VDC	1 C/O	10A	<b>\$3.00</b>	20
HR302CD024	24VDC	2 C/O	8A	<b>\$3.50</b>	20
HR401CD024	24VDC	1 C/O	10A	<b>\$3.50</b>	10
HR402CD024	24VDC	2 C/O	10A	<b>\$4.00</b>	10
HR501CD024	24VDC	1 C/O	10A	<b>\$4.50</b>	10
HR502CD024	24VDC	2 C/O	8A	<b>\$5.50</b>	10
HR602CD024	24VDC	2 C/O	7A	<b>\$4.50</b>	10
HR604CD024	24VDC	4 C/O	5A	<b>\$5.00</b>	10
HR702CD024	24VDC	2 C/O	10A	<b>\$5.50</b>	10
HR703CD024	24VDC	3 C/O	10A	<b>\$6.50</b>	10

\*All other voltage versions can be substituted for the same cost.  
D012 = 12VDC, D048 = 48VDC, A024 = 24VAC, A110 = 110VAC/120VAC

## Sockets for General Purpose Relays

Note: Items are sold in package quantity only.



Part Number	Terminals	Use with Relay Series	Unit Price	Package Quantity
HR1XS024	Screw	HR10, HR20	<b>\$5.00</b>	10
HR5XS21	Screw	HR30, HR40, HR50	<b>\$3.50</b>	10
HR5XS22	Screw	HR30, HR40, HR50	<b>\$3.50</b>	10
HR6XS21	Screw	HR60 2C	<b>\$3.50</b>	10
HR6XS22	Screw	HR60 2C	<b>\$3.50</b>	10
HR6XS41	Screw	HR60 4C	<b>\$3.50</b>	10
HR6XS42	Screw	HR60 4C	<b>\$3.50</b>	10
HR7XS1	8-Pin, Screw	HR70 2C	<b>\$3.50</b>	10
HR7XS2	11-Pin, Screw	HR70 3C	<b>\$3.50</b>	10

**ALWAYS INDICATE LOVATO USA PROMO 2023 WHEN PLACING ORDERS.**

For authorized Lovato Electric partner distributors only. Prices are subject to change without notice.

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