

## One stop shop for all panel accessories



**Maximum Retail Prices  
for Panel Accessories**  
*Effective from 01 - 01 - 2017*

# Get the Switchgear Training Edge!

Aimed at maximizing productivity, conserving energy, minimizing costs and enhancing safety, our Electrical & Automation training programmes have benefitted over 1.77 Lakh professionals in the last 30 years. These training programmes are highly beneficial as they provide right exposure and impart knowledge on selection, installation, maintenance and testing of Electrical & Automation Products.

## So gain the advantage and go the extra mile with:

- 22 courses on contemporary topics
- Courses applicable to all switchgear brands
- Training Centers in Pune, Lucknow, Coonoor, Vadodara, Delhi & Kolkata
- Blend of theory and practical experience

## The typical training programmes cover:

- Low Voltage & Medium Voltage Switchgear
- Switchboard Electrical Design
- AC Drives & Building Management Solutions
- Protective Relays & Earthing
- Power Quality Solutions

Please contact any of the training centres for participation and detailed training programme schedule.



### Pune

Larsen & Toubro Limited  
Switchgear Training Centre,  
T-156/157, MIDC  
Bhosari, Pune - 411 026  
Tel: 020 2712 0037 / 2712 0653  
Fax: 020 2712 2933  
E-mail: stc-pune@Lntebg.com



### Lucknow

Larsen & Toubro Limited  
Switchgear Training Centre,  
C - 6 & 7, UPSIDC  
P. O. Sarojinagar, Lucknow - 226 008  
Tel: 0522 247 6015 / 97944 54455  
Fax: 0522 247 6015  
E-mail: stc-lucknow@Lntebg.com



### Coonoor

Larsen & Toubro Limited  
Switchgear Training Centre,  
Ooty-Coonoor Main Road  
Yellanahalli P.O., The Nilgiris - 643 243  
Tel. : 0423 251 7107  
Fax : 0423 251 7158  
E-mail: stc-coonoor@Lntebg.com



### Vadodara

Larsen & Toubro Limited  
Switchgear Training Centre  
Behind L&T Knowledge City,  
Near Village Ankhol,  
Vadodara - 390019  
Tel: 0265 2457805  
E-mail: stc-vadodara@Lntebg.com



### Delhi

Larsen & Toubro Ltd  
Switchgear Training Centre  
32, Shivaji Marg,  
Near Motinagar Metro Station,  
New Delhi - 110015  
Tel: 011 41419515 / 41419695 / 41419500  
Fax: 011 41419600  
E-mail: stc-delhi@Lntebg.com



### Kolkata

Larsen & Toubro Limited  
Switchgear Training Centre  
4th Floor, 3B, Shakespeare Sarani,  
Kolkata - 700071  
Tel: 033 42005975 / 42005978  
E-mail: stc-kolkata@Lntebg.com

## Contents

**Rotary Switches** ..... 2

**Load Break Switches** ..... 13

**Cable Ducts** ..... 15

**Timing Devices & Supply Monitors** ..... 18

**Modular Remote Control Units** ..... 25

**Discontinued products** ..... 37

# Smart is in the Energy Management



## Introducing Energy Management Solutions from L&T

### Key Features

- SmartComm Energy Management System software
- Meters with Class 1, Class 0.5, 0.5S, Class 0.2, 0.2S accuracy
- Meters with THD and individual harmonics up to 31st
- Direct access to Basic, Power and Energy parameters through front keys
- RS485 or Ethernet communication available
- Analog inputs and outputs, data logging options

### L&T's metering solutions include:

Single function meters

VAF, PF meters

Energy meters

Dual Source meters

Basic Multifunction meters

Advanced Multifunction meters

MD Controller

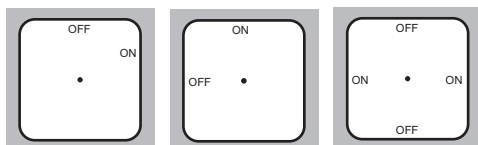
Please refer ESP Price List for details.

### Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858  
Tel: 022 6774 5858 Fax: 022 6774 5859 Email: cic@Lntebg.com  
Web: www.Lntebg.com

# Rotary Switches

## Cam Operated Rotary Switches



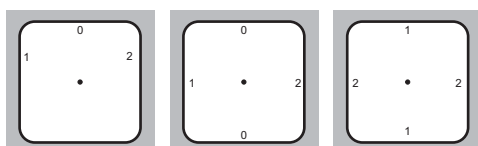
### Isolators Switches (ON-OFF Switches)



60° Operation	90° Operation	90° Operation Complete Rotation	Description	M.R.P. (₹) Per Unit								
				6A	10A	16A	25A	32A	40A	63A	100A	200A
	<b>Cat. No.</b>											
<b>61001</b>	<b>61191</b>	<b>61195</b>	1 Pole ON - OFF	115	219	264	285	355	452	529	2778	3587
<b>61002</b>	<b>61192</b>	<b>61198</b>	2 Pole ON - OFF	148	250	301	349	412	547	676	3472	4673
<b>61003</b>	-	-	3 Pole ON - OFF	<b>161</b>	<b>333</b>	<b>541</b>	<b>658</b>	<b>731</b>	<b>916</b>	<b>1317</b>	<b>4702</b>	<b>6128</b>
-	<b>61199</b>	<b>61197</b>		<b>161</b>	<b>301</b>	<b>352</b>	<b>457</b>	<b>509</b>	<b>638</b>	<b>915</b>	<b>4274</b>	<b>5837</b>
<b>61004</b>	<b>61194</b>	<b>61196</b>	4 Pole ON - OFF	198	339	376	555	593	721	1088	4950	6941

Offered upto 12 Pole

§ Motor Duty Switch (AC-3 Duty)

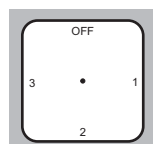


### Changeover Switches (Local - Remote, Auto - Manual Switches)



With Center OFF (60°)	With OFF (90°)	Without OFF (90°) with Complete Rotation	Description	M.R.P. (₹) Per Unit								
				6A	10A	16A	25A	32A	40A	63A	100A	200A
	<b>Cat. No.</b>											
<b>61025</b>	<b>61151</b>	<b>61037</b>	1 P 2W	148	276	330	355	396	529	715	3587	5188
<b>61026</b>	<b>61152</b>	<b>61038</b>	2 P 2W	198	333	376	478	555	726	1088	5251	7905
<b>61027</b>	<b>61153</b>	<b>61039</b>	3 P 2W	244	413	504	721	780	915	1462	6800	10115
<b>61028</b>	<b>61154</b>	<b>61040</b>	4 P 2W	301	482	580	946	998	1101	1832	8587	12628

### Phase Changeover (PS Series Switches)



Cat. No.	Description	M.R.P. (₹) Per Unit			
		25A	32A	40A	63A
<b>61060</b>	1 P 3W with OFF	340	424	619	697

### Phase Changeover in SS enclosure

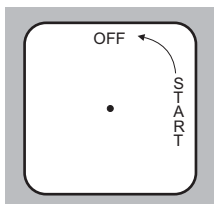


Cat. No.	Description	M.R.P. (₹) Per Unit			
		25A	32A	40A	63A
<b>72347P</b> □ <b>M17TDYR.</b>	PS Series Switches in SS enclosure	2314	2438	3605	3690

Note : Prices are available on request for higher than 4 Pole ON-OFF version. Please contact nearest L&T branch office for prices.

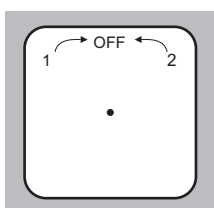
## Spring Return Switches

### ON - OFF Spring Return Switches



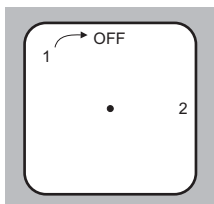
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P ON - OFF	61351	568	861
2 P ON - OFF	61352	593	974
3 P ON - OFF	61353	675	1166
4 P ON - OFF	61354	796	1273

### Double Throw with Spring Return Switches



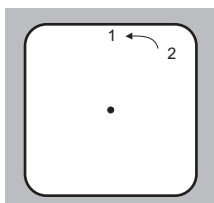
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 2W W/OFF Spring Return	61361	593	974
2 P 2W W/OFF Spring Return	61362	875	1273
3 P 2W W/OFF Spring Return	61363	956	1586

### One Side Spring Return Switches



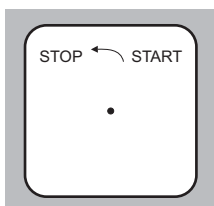
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 3W Spring Return - OFF from 1	61364	542	974
2 P 3W Spring Return - OFF from 1	61365	796	1273
3 P 3W Spring Return - OFF from 1	61369	867	1586

### Spring Return Switches without OFF



Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 2W Spring Return - from 2 to 1	61371	542	974
2 P 2W Spring Return - from 2 to 1	61372	796	1273
3 P 2W Spring Return - from 2 to 1	61373	867	1586

### Start Stop Spring Return Switches

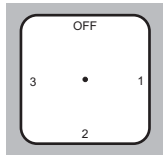


Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P Start Stop Spring Return	61300	675	984
2 P Start Stop Spring Return	61388	796	1273

# Multi Step Switches

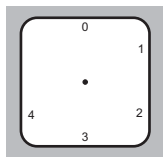


## Multi Step Switches with OFF



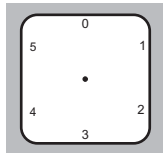
3 Way

Description	Cat. No.	M.R.P. (₹) Per Unit									
		6A	10A	16A	25A	32A	40A	63A	100A	200A	
1 P 3W	61060	174	314	346	PS Series Switches (Refer page no. 2)					3645	5536
2 P 3W	61080	244	369	421	567	613	882	992	5360	8465	
3 P 3W	61100	352	494	714	845	921	1177	1531	6999	11112	
4 P 3W	61131	448	632	867	1055	1158	1575	1839	8843	13933	



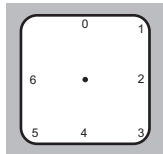
4 Way

1 P 4W	61061	204	283	504	599	664	754	1023	***	***
2 P 4W	61081	352	531	593	632	734	***	1197	***	***
3 P 4W	61101	485	***	945	1055	1211	***	1839	12945	16714
4 P 4W	61132	587	993	1199	1267	1352	1787	2122	18161	***



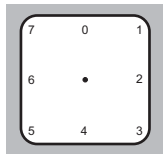
5 Way

1 P 5W	61062	223	450	580	747	759	***	1094	***	***
2 P 5W	61082	408	694	772	1017	1197	1229	1537	***	***
3 P 5W	61102	542	1274	1338	1441	***	1775	2079	17230	***



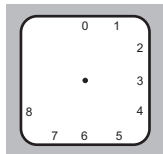
6 Way

1 P 6W	61063	294	***	561	***	773	799	***	***	***
2 P 6W	61083	485	***	817	***	***	***	***	***	***
3 P 6W	61103	675	***	1541	1697	***	***	2141	***	***



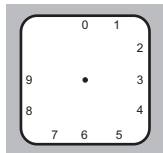
7 Way

1 P 7W	61064	301	520	607	759	794	825	1280	***	***
2 P 7W	61084	509	***	803	1190	**	1267	2033	***	***
3 P 7W	61104	701	***	1299	1563	***	2392	2816	***	***



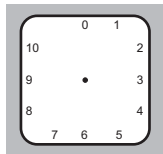
8 Way

1 P 8W	61065	340	***	601	1043	***	1307	***	***	***
2 P 8W	61085	556	***	1095	***	***	***	***	***	***



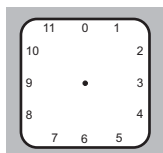
9 Way

1 P 9W	61066	352	***	***	***	***	***	***	***	***
2 P 9W	61086	631	***	1605	***	***	***	***	***	***



10 Way

1 P 10W	61067	408	***	836	***	***	***	***	***	***
2 P 10W	61087	651	***	***	***	***	***	***	***	***

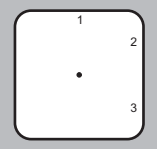
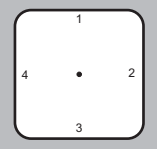
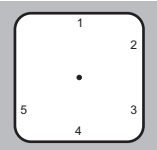
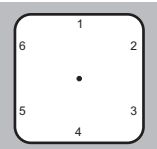
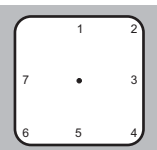
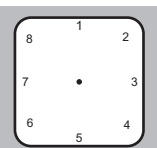
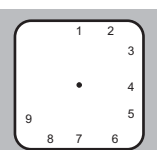
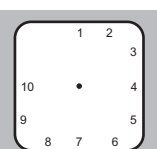
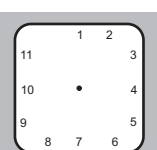
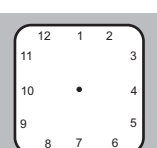


11 Way

1 P 11W	61068	485	***	765	1941	***	***	***	***	***
2 P 11W	61088	740	***	***	***	***	***	***	***	***

\*\*\*Prices are available on request.

## Multi Step Switches without OFF

	Description	Cat. No.	M.R.P. (₹) Per Unit								
			6A	10A	16A	25A	32A	40A	63A	100A	200A
 3 Way	1 P 3W W/O OFF	61049	166	302	354	438	457	703	794	***	***
	2 P 3W W/O OFF	61069	244	457	492	845	***	882	1043	5360	***
	3 P 3W W/O OFF	61089	352	569	740	845	921	***	1531	***	11219
	4 P 3W W/O OFF	61120	448	632	855	1074	1144	2513	2770	***	***
 4 Way	1 P 4W W/O OFF	61050	187	326	428	529	555	767	1068	3645	***
	2 P 4W W/O OFF	61070	274	475	504	625	682	921	1197	5631	9095
	3 P 4W W/O OFF	61090	371	464	803	998	1101	1205	1609	7417	12262
	4 P 4W W/O OFF	61121	518	632	936	1205	1280	1609	2148	9113	15515
 5 Way	1 P 5W W/O OFF	61051	223	342	461	593	***	***	***	***	***
	2 P 5W W/O OFF	61071	408	***	631	***	***	***	***	***	11523
	3 P 5W W/O OFF	61091	542	***	1338	1441	***	1473	2141	***	***
 6 Way	1 P 6W W/O OFF	61052	238	***	575	663	759	888	1121	5360	10490
	2 P 6W W/O OFF	61072	473	***	777	1183	1216	1229	1570	10682	13728
	3 P 6W W/O OFF	61092	575	1193	1338	1383	1429	1602	2141	18161	28713
 7 Way	1 P 7W W/O OFF	61053	294	***	***	785	***	***	***	9448	***
	2 P 7W W/O OFF	61073	509	***	867	1205	***	***	***	***	***
	3 P 7W W/O OFF	61093	701	***	1433	1823	***	***	2882	***	***
 8 Way	1 P 8W W/O OFF	61054	301	619	651	794	836	927	1352	***	***
	2 P 8W W/O OFF	61074	536	***	1095	1205	***	***	***	***	***
	3 P 8W W/O OFF	61094	752	***	1566	1641	1671	1917	3027	***	***
 9 Way	1 P 9W W/O OFF	61055	352	***	1038	***	***	***	***	***	***
	2 P 9W W/O OFF	61075	593	***	987	***	***	***	***	***	***
 10 Way	1 P 10W W/O OFF	61056	376	656	1153	***	***	***	***	***	***
	2 P 10W W/O OFF	61076	658	***	***	***	***	***	***	***	***
 11 Way	1 P 11W W/O OFF	61057	696	***	***	***	***	***	***	***	***
	2 P 11W W/O OFF	61077	796	***	***	***	***	***	***	***	***
 12 Way	1 P 12W W/O OFF	61058	734	***	855	2006	2136	***	***	***	***
	2 P 12W W/O OFF	61078	861	***	***	***	***	***	***	***	***

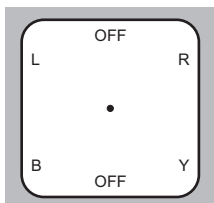
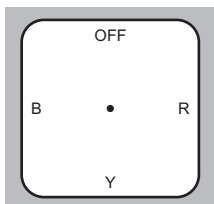
\*\*\*Prices are available on request.



# Instrumentation Selector Switches

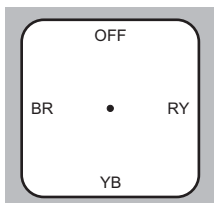


## Ammeter Selector Switches (ASS)

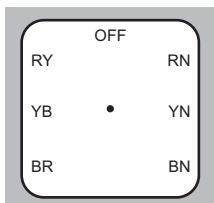


Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Line Currents with OFF with CT	61325 SAB13TDYR	6A	246
Line Currents with OFF with CT	61325 SBB13TDYR	10A	292
Line Currents with OFF with CT	61325 SCB03TDYR	16A	372
Line Currents with OFF without CT	71000 SCB03TDYR	16A	1069
Direct Currents with OFF without CT	71000 SEB03TDYR	25A	1205
Direct Currents with OFF without CT	71000 SFB03TDYR	32A	1448
Direct Currents with OFF without CT	71000 SGB03TDYR	40A	2543
Direct Currents with OFF without CT	71000 SIB03TDYR	63A	2682
Current in each phase and leakage of out of balance current with OFF	71721 SBB13TDYR	10A	573

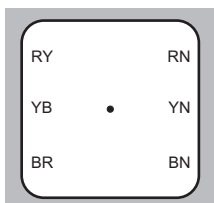
## Voltmeter Selector Switches (VSS)



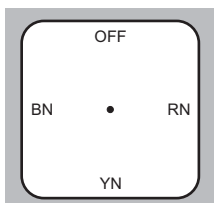
Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases with OFF	61312 SAB13TDYR	6A	177
Voltage between Phases with OFF	61312 SBB13TDYR	10A	266
Voltage between Phases with OFF	61312 SCB03TDYR	16A	336



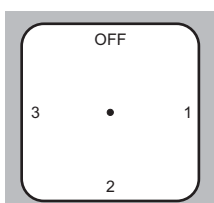
Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SAB13TDYR	6A	316
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SBB13TDYR	10A	532
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SCB03TDYR	16A	630



Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phase & Phase to Neutral without OFF	61314 SBB13TDYR	10A	525



Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases & Phase to Neutral without OFF	61311 SAB13TDYR	6A	316
Voltage between Phases & Phase to Neutral with OFF	61311 SBB13TDYR	10A	360



## Ammeter & Voltmeter Combined Switch

Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases to Neutral & Current of that Phase	61338 SBB13TDYR	10A	562



Control your breaker remotely  
through TNC switch

## Breaker Control Switches (Trip-Neutral-Close)

- 1NO+1NO, 2NO+2NC model available in 25A
- Barrel lock option available
- Lost motion contact (LMD) & Sequence Locking available

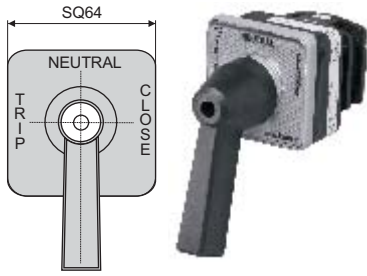


**Customer Interaction Center (CIC)**

BSNL / MTNL (toll free) : 1800 233 5858 Reliance (toll free) : 1800 200 5858

Tel : 022 6774 5858, Fax : 022 6774 5859 E-mail : [cic@Lntebg.com](mailto:cic@Lntebg.com) / Website [www.Lntebg.com](http://www.Lntebg.com)

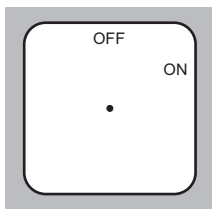
## Breaker Control Switches (Trip - Neutral - Close)



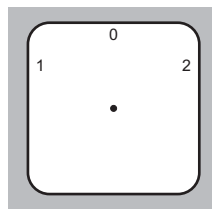
Rating	Contact Arrangement	Mounting Type	Cat. No.	M.R.P. (₹) Per Unit
25A	1NO + 1NC	Standard	73257SEB03PGGB	1013
25A	1NO + 1NC	Standard	73257SEB03PGYR	1013
25A	1NO + 1NC	Barrel Lock	73257SEB90PGBB	1356
25A	2NO + 2NC	Standard	72009SEB03PGBB	1193
25A	2NO + 2NC	Standard	72009SEB03PGYR	1193
25A	2NO + 2NC	Standard	72009SEB03PGGB	1193
25A	2NO + 2NC	Barrel Lock	72009SEB90PGBB	1645

Other option such as sequence inter lock (SIL) & lost motion device (LMD) available on request.

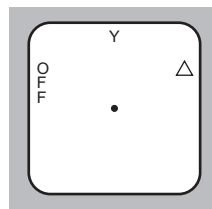
## Motor Duty Switches



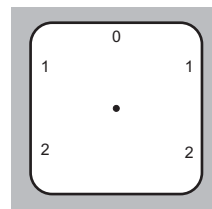
61003



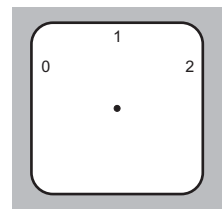
61211



61200



61217

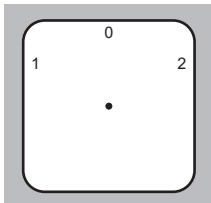


61212

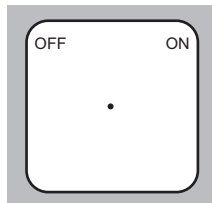
Description	Cat. No.	M.R.P. (₹) Per Unit						
		16A	25A	32A	40A	63A	100A	200A
ON - OFF Switch	61003	541	658	731	916	1317	4702	6128
FOR - OFF - REV Switch	61211	408	490	581	1513	1839	4686	7553
Star - Delta Switch	61200	542	691	869	1325	1697	***	***
2 Speed for FOR - OFF - REV Switch	61217	***	1250	***	2090	***	***	***
2 Speed forward Switch	61212	593	1139	1429	1794	2199	5861	6768

# Supplied only with ball grip handle

## Switches in Enclosure



73393, 71913



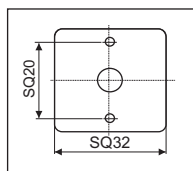
72244



Description	Cat. No.	Amps	M.R.P.
FOR - OFF - Rev in SS with ball grip handle	73393SCM17BGXB	16A	438
FOR - OFF - Rev in SS with ball grip handle	71913SEM17BGYR	25A	683
FOR - OFF - Rev in SS with ball grip handle	71913SFM17BGYR	32A	1004
3 Pole ON - OFF in SS	72244SEM17TDYR	25A	593
3 Pole ON - OFF in SS	72244SFM17TDYR	32A	866
3 Pole 2Way Without OFF in SS	61153SCM17TDYR	16A	830

For any other rating requirement please contact nearest L&T branch office

## Rotary Switch Accessories



### Front Plate Assembly

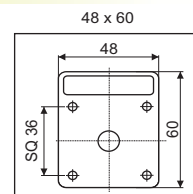
Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Front Plate for 6 & 10A	<b>FP10SQ32</b>	32 x 32	<b>24</b>
Front Plate for 6 to 16A	<b>FP16SQ48</b>	48 x 48	<b>25</b>
Front Plate for 25 & 32A	<b>FP32SQ64</b>	64 x 64	<b>44</b>
Front Plate for 40 to 200A	<b>FP200SQ88</b>	88 x 88	<b>70</b>



### Handles & Knobs

Tear Drop    Flag Knob    Ball Grip    Lever Handle

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Flag Handle for 6 - 10A	<b>KNFHS1</b>	32 x 32	<b>7</b>
Flag Handle for 16A	<b>KNFHS2</b>	48 x 48, 48 x 60	<b>14</b>
Flag Handle for 25 - 32A	<b>KNFHS3</b>	64 x 64, 64 x 80	<b>25</b>
Ball Handle for 16 - 32A	<b>HNBHS1</b>	64 x 64, 64 x 80	<b>70</b>
Ball Handle for 40 - 200A	<b>HNBHS2</b>	88 x 88, 104 x 104	<b>70</b>
PG Handle for 16 - 32A	<b>HNPGS1</b>	64 x 64, 64 x 80	<b>75</b>
Lever Handle for 40 - 200A	<b>HNLVS1</b>	88 x 88, 104 x 104	<b>95</b>
Tear Drop for 6 - 16A	<b>KNTDS1</b>	48 x 48, 48 x 60	<b>14</b>
Tear Drop for 16 - 32A	<b>KNTDS2</b>	64 x 64, 64 x 80	<b>25</b>
Tear Drop for 40 - 400A	<b>KNTDS3</b>	88 x 88, 104 x 104	<b>50</b>



### Special Front Plate Assembly

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
SPL IND Plates upto 16A	<b>FPRT4860</b>	48 x 60	<b>44</b>
SPL IND Plates for 16 - 32A	<b>FPRT6480</b>	64 x 80	<b>75</b>

### Script Plate (marking plate)

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Script Plate for 6 - 10A	<b>SPSQ32</b>	32 x 32	<b>7</b>
Script Plate for 6 - 16A	<b>SPSQ48</b>	48 x 48	<b>14</b>
Script Plate for 16 - 32A	<b>SPSQ64</b>	64 x 64	<b>14</b>
Script Plate for 40 - 200A	<b>SPSQ88</b>	88 x 88	<b>19</b>
Script Plate for 6 - 16A	<b>SPRT4816</b>	48 x 16	<b>7</b>
Script Plate for 6 - 32A	<b>SPRT6416</b>	64 x 16	<b>7</b>

### Mounting Plates (used for Back Fixing Plate)

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Rear MTG Plate for 6 - 16A	<b>MPSQ48</b>	48 x 48	<b>11</b>
Rear MTG Plate for 25 - 32A	<b>MPSQ64</b>	64 x 64	<b>16</b>
Rear MTG Plate for 40 - 63A	<b>MPSQ88</b>	88 x 88	<b>39</b>
Rear MTG Plate for 80 - 400A	<b>MPSQ104</b>	104 x 104	<b>75</b>
DIN Rail Attachment upto 32A	<b>B21DIN35</b>	-	<b>70</b>

### Wall Type Mounting Boxes (upto 32A - maximum 4 Contacts)

Description	Cat. No.	M.R.P. (₹) Per Unit
Plastic / ABS Enclosure B17 16A upto 3 Stage / 25A upto 2 Stage	<b>WMBABS</b>	<b>497</b>
Aluminium Enclosure B17 16A upto 3 Stage / 25A upto 2 Stage	<b>WMBAL</b>	<b>828</b>
SS Enclosure M17 upto 32A - 4 Stage	<b>WMBSS</b>	<b>310</b>



B31 PVC Enclosure

Note: Switches to be order separately.

### Script Plate - Silver Finish (for Black Front Plate Assembly Only)

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Silver Finish 32 x 32 mm	<b>SFSQ328</b>	32 x 32	<b>7</b>
Silver Finish 48 x 48 mm	<b>SFSQ48</b>	48 x 48	<b>14</b>
Silver Finish 64 x 64 mm	<b>SFSQ64</b>	64 x 64	<b>19</b>
Silver Finish 88 x 88 mm	<b>SFSQ88</b>	88 x 88	<b>25</b>
Silver Finish 104 x 104 mm	<b>SFSQ104</b>	104 x 104	<b>38</b>

### Shrouding Cover (maximum 6 Contacts Round Type)

Description	Cat. No.	M.R.P. (₹) Per Unit
Shrouding Cover for 6 - 10A	<b>SHCS1</b>	<b>50</b>
Shrouding Cover for 16A	<b>SHCS2</b>	<b>50</b>
Shrouding Cover for 25 - 32A	<b>SHCS3</b>	<b>83</b>
Shrouding Cover for 40 - 63A	<b>SHCS4</b>	<b>83</b>
Special Cover for Extended Termination 80 - 400A (maximum 2 Contact Stage)	<b>SHCS5</b>	<b>605</b>

# Ordering Code for Rotary Switches

Example for : 25A 3 Pole ON - OFF Switch


	1. Programme Code				2. Type		3. Ampere		4. Mounting		5. Knob		6. Colour	
25A 3 Pole														
ON - OFF Switch	6	1	1	9	7	S	E	B	0	3	T	D	Y	R

## 1. Programme Code


Programme	Programme Code
Isolators	Pg. No. 3
Changeovers Switches	Pg. No. 3
Spring Return Switches	Pg. No. 4
Multistep Switches with OFF	Pg. No. 5
Multistep Switches without OFF	Pg. No. 6
Instrumentation Switches	Pg. No. 7
Motor Control Switches	Pg. No. 8
Switches in SS Enclosure	Pg. No. 8
Breaker Control Switches	Pg. No. 8

## 2. Type Selection


Type	Code
S-Series (6 to 400A)	<b>S</b>
Touch Proof (6 to 16A)	<b>T</b>
Rear Access Termination (16 to 63A)	<b>R</b>
Phase Selector Only for 1 Pole 3 Way with OFF (25 to 63A)	<b>P</b>
DC Switches (16 to 500A)	<b>D</b>



**S Series**  
Open Version



**TP Series**  
Touch Proof



**RT Series**  
Touch Proof &  
Rear Termination

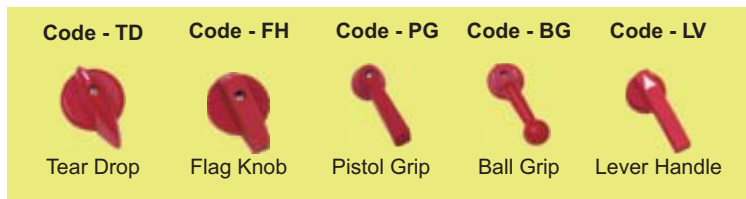
## 3. Ampere Selection

Ampere	Code	Ampere	Code
6	<b>A</b>	100	<b>K</b>
10	<b>B</b>	125	<b>L</b>
16	<b>C</b>	160	<b>M</b>
20	<b>D</b>	200	<b>N</b>
25	<b>E</b>	250	<b>O</b>
32	<b>F</b>	300	<b>P</b>
40	<b>G</b>	400	<b>Q</b>
50	<b>H</b>	500	<b>R</b>
63	<b>I</b>	600	<b>S</b>
80	<b>J</b>	800	<b>T</b>

## 4. Mounting Style








## 5. Knob / Handle Selection



## 6. Color Combination Selection Table



## Front Plate

Standard Style	Frame Size	Bigger Style
Current Ratings 6/10 Amps		Current Ratings ---
16/20 Amps		6/10 Amps
25/32 Amps		16/20 Amps
S40 Amps & above		25/32 Amps
—		S40 Amps & above

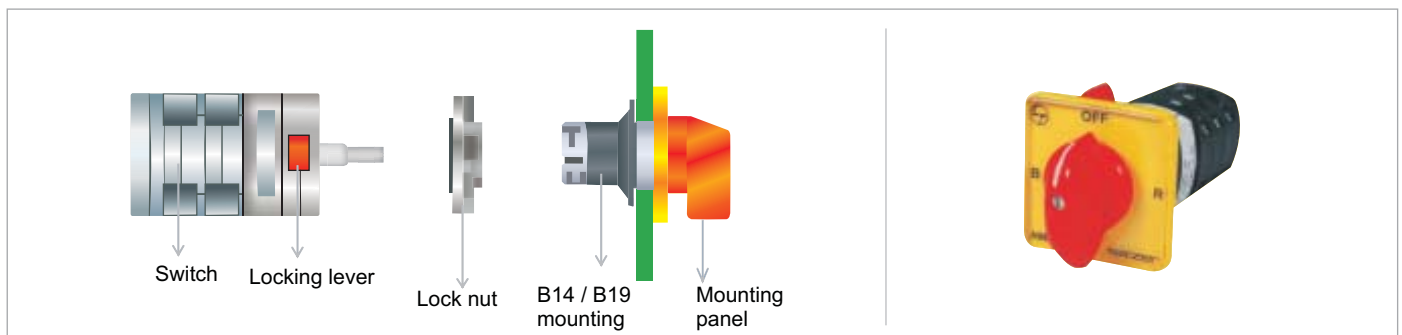
Note: 1. For ratings of 6/10A, standard mounting style is B13  
 2. Single hole mounting equivalent of B03 is B19 and B13 is B14.

## Mounting Feasibility

Mounting Code	Description	Feasibility					
		6/10A	16/20A	25/32A	40/63A	80/100/125A	200/400A
B03	Front Mounting, Standard Mounting plate		✓	✓	✓	✓	✓
B13	Front Mounting with next size plate	✓	✓	✓	✓	✓	✓
B00	Front Mounting 48 x 48 plate for 25/32 A and 64 x 64 plate for 40/63A			✓	✓		
B19	Single Hole Mounting 32 x 32 plate for 6/10A only 48 x 48 Plate for 16-32A	✓	✓	✓			
B14	Single Hole Mounting 48 x 48 plate for 6/10A	✓					
B33	Front Mounting with Round Padlock for 2 Position (for Isolators)		✓	✓	✓	✓	✓
B30	Front Mounting with Rectangular Padlock 2 Position (for Isolators)		✓	✓	✓	✓	✓
B63	Key Lockable type (Handle/Knob)		✓	✓	✓		
B90	Center Key Lock (Pistol grip Handle in black color only)		✓	✓			
B02	Rear / (Back/Base) Mounting	✓	✓	✓	✓	✓	✓
B21	DIN Rail Mounting on 35 mm Rail 6-32 Amps	✓	✓	✓			
B32	Rear / Base Mounting, Door Interlock + Rectangular Padlock (B30+B42)		✓	✓	✓	✓	✓
B34	Rear / Base Mounting, Door Interlock + Round Padlock (B33+B42)		✓	✓	✓	✓	✓
B41	Rear Mounting with Clutch Mechanism on Door (Door Open in all position without Interlock)		✓	✓	✓	✓	✓
B42	Rear Mounting with Interlock Mechanism on Door		✓	✓	✓	✓	✓
F47	Door Clutch, Mounting Plate at front		✓	✓	✓	✓	✓
B17	ABS Enclosure	Max stages	upto 4	upto 3	upto 5	upto 5	
B31	ABS Enclosure with Round Padlock (B33+B17)	Max stages		upto 2	upto 2	upto 2	
M17	Metal Enclosure	Max stages	upto 4	upto 4	upto 3		
A17	Aluminium Enclosure	Max stages	upto 4	upto 3	upto 2		
B40	Single Hole Mounting with Padlock 48 x 48 Plate For 16-32A			✓	✓		
B43	Single Hole Mounting with Center key 48 x 48 Plate for 16-32A			✓	✓		
B45	Single Hole Mounting with Round Ring with Knob 16A-32A			✓	✓		

## Single Hole Mounting Rotary Switch

Single hole mounting (SHM) range of rotary switches uses a unique mounting concept that requires just a single Ø22.5 cutout to mount the switches on the panel. These help in reducing the time and cost during assembly.



### Benefits:

- **Single hole panel cutout** – makes easier for fitting on the panel
- **Easy mounting** – reduces assembly time by 50% over conventional 5 hole mounting
- **Wiring accessibility** – reduces wiring time, the switch can be wired separately and then snap fitted to the mounting assembly using the locking lever.

**There is no additional price for switches with Single hole mounting from standard mounting.**

## EB - GEN Changeover Switches

### 3 Pole EB - GEN Changeover Switches



B13 Mounting

Description	Cat. No.	M.R.P. (₹) Per Unit			
		25A	32A	40A	63A
3 Pole C/O Front Panel Mounting	EBX31153B13BGYR	1313	1368	1596	1661
3 Pole C/O Rear Mounting	EBX31153MB42BGYR	1524	1579	1838	1895
3 Pole C/O in SS Enclosure	EBX31153SB31BGYR	1822	1872	2166	2231
3 Pole C/O Rear Mounting	EBX31153B21BGYR	1524	1579	1839	1895
3 Pole C/O Rear Mounting	EBX31153MB34LHGB	1524	1579	1838	1895
3 Pole C/O in ABS Enclosure	EBX31153B31LBGYR	1822	1872	2166	2231

### 4 Pole EB - GEN Changeover Switches



MB42 Mounting

Description	Cat. No.	M.R.P. (₹) Per Unit			
		25A	32A	40A	63A
4 Pole C/O Front Panel Mounting	EBX31154B13BGYR	1524	1579	1872	1927
4 Pole C/O Rear Mounting	EBX31154MB42BGYR	1717	1783	2105	2193
4 Pole C/O in SS Enclosure	EBX31154SB31BGYR	2032	2111	2448	2536
4 Pole C/O Rear Mounting	EBX31154B21BGYR	1717	1783	2105	2193
4 Pole C/O Rear Mounting	EBX31154MB34LHGB	1717	1783	2105	2193
4 Pole C/O in ABS Enclosure	EBX31154B31LBGYR	2032	2111	2448	2536

### Rating Selection Table



SB31 Enclosure

Ampere (A)	Code (X)
25	E
32	F
40	G
63	I

Note : SB 31 Enclosure for 25A to 63A ratings.

B21 Mounting model is similar to B13 model with links provided on the common side.

\*\*\* - Please contact nearest L&T branch office.

# Load Break Switches

- AC 23 utilization category
- Also available in enclosure
- Padlock facility to prevent accidental use
- Ideally used in buildings and for equipment isolation



## LB 3 Pole ON - OFF Switches

Description	Cat. No.	Can also be given on request	M.R.P. (₹) Per Unit								
			16A	20A	25A	32A	40A	63A	80A	100A	125A
Single Hole MTG Switch with Flag Knob	LBX32300B19FPYR		450	460	*	*	*	*	*	*	*
Front Plate MTG with Flag Knob	LBX32300B40FPYR		438	450	*	*	*	*	*	*	*
Front Panel MTG with B03 (48x48) Plate	LBX32300B03FLYR	32309	400	410	444	460	527	566	*	*	*
Front Panel MTG with B13 (64x64) Plate with Flag Knob	LBX32300B13FLYR	32306 / 32309	*	*	444	460	527	566	*	*	*
Front Panel MTG with B13 (64x64) Plate with BG Handle	LBX32300B13BGYR	32309	*	*	488	505	571	604	*	*	*
DIN Rail MTG Switch with Flag Knob	LBX32300B23FLGB		*	*	444	460	527	566	*	*	*
Rectangular Pad Lock Switch with TDYR	LBX32300B30TDYR		*	*	538	566	621	654	*	*	*
Round Pad Lock Switch with RDYR	LBX32309B33RDYR		438	450	488	505	571	604	1554	1940	2426
Switch with B63 Lock & Key Version	LBX32309B63TDYR		*	*	743	776	843	865	*	*	*
Base MTG Switch with DIL and Pad Lock	LBX32309MB34RDYR		699	721	776	820	853	920	2071	2586	3234
Base MTG Switch with BG Handle	LBX32309MB42BGYR		699	721	776	820	853	920	*	*	*
Switch in ABS Enclosure - in B31SM	LBX32300B31SMRDYR		887	915	987	1014	*	*	*	*	*
Switch in ABS Enclosure - in B31M	LBX32309B31MRDYR		*	*	*	*	1108	1136	*	*	*
Switch in SS Enclosure - in B31L with Round Plate	LBX32309SB31LRDYR		*	*	*	*	*	*	2918	3439	4081

## LB 4 Pole ON - OFF Switches

Description	Cat. No.	Can also be given on request	M.R.P. (₹) Per Unit								
			16A	20A	25A	32A	40A	63A	80A	100A	125A
Single Hole MTG Switch with Flag Knob	LBX32400B19FPYR		560	571	*	*	*	*	*	*	*
Front Plate MTG with Flag Knob	LBX32400B40FPYR		549	560	*	*	*	*	*	*	*
Front Panel MTG with B03 (48x48) Plate	LBX32400B03FLYR	32409	510	522	567	582	682	721	*	*	*
Front Panel MTG with B13 (64x64) Plate with Flag Knob	LBX32400B13FLYR	32406 / 32409	*	*	567	582	682	721	*	*	*
Front Panel MTG with B13 (64x64) Plate with BG Handle	LBX32400B13BGYR	32409	*	*	610	627	726	759	*	*	*
DIN Rail MTG Switch with Flag Knob	LBX32400B23FLGB		*	*	567	582	682	721	*	*	*
Rectangular Pad Lock Switch with TDYR	LBX32400B30TDYR		*	*	659	688	776	809	*	*	*
Round Pad Lock Switch with RDYR	LBX32409B33RDYR		549	560	610	627	726	759	*	*	*
Switch with B63 Lock & Key Version	LBX32409B63TDYR		*	*	865	898	997	1020	*	*	*
Base MTG Switch with DIL and Pad Lock	LBX32409MB34RDYR		809	831	898	942	1009	1075	2398	2996	3743
Base MTG Switch with BG Handle	LBX32409MB42BGYR		809	831	898	942	*	*	*	*	*
Switch in ABS Enclosure - in B31SM	LBX32400B31SMRDYR		997	1025	1108	1136	*	*	*	*	*
Switch in ABS Enclosure - in B31M	LBX32409B31MRDYR		*	*	*	*	1263	1291	*	*	*
Switch in SS Enclosure - in B31L with Round Plate	LBX32409SB31LRDYR		*	*	*	*	*	*	3246	3848	4591



# Ordering Code for Load Break and Changeover Switches

LB   Load Break Switch	X   Switch Rating	XXXXX   Programme Code	XXXXX   Mounting Options	XX   Knob Options	XX   Colour
------------------------------------	----------------------------	------------------------------	--------------------------------	-------------------------	-------------------

## Example

LB Switches, 63A, 3P, 9 O'clock, 4 hole front mounting, with metal shaft, yellow front plate, red round knob

LB I 32309 MB34 RD YR

LB	I	32309	MB34	RD	YR	Description
---	---	---	---	---	---	Yellow Front Plate/ Red Knob
---	---	---	---	---	---	64 x 64 Front Plate Round Knob with Padlock (R)
---	---	---	---	---	---	Metal Shaft with Round Knob with Padlock and Interlock
---	---	---	---	---	---	3Pole 9 O' Clock "OFF"
---	---	---	---	---	---	63A
---	---	---	---	---	---	Load Break Switch

## Accessories

X 	XX 	XXX 
F-Front Mounting	MC-Main Module	20 - 16A to 20A 32 - 25A to 32A
R-Rear Mounting	NC-Neutral Module	63 - 40A to 63A 80 - 80A 125 - 100A, 125A & 80A
	AC-Auxiliary Module	

R	NC	32	Description
---	---	---	32A
---	---	---	Neutral Module
---	---	---	Rear Mounting

## Rating Selection Table


Ampere (A)	Code (X)
16	C
20	D
25	E
32	F
40	G
63	I
80	J
100	K
125	L

\*\*\* Note : Please contact nearest L&T branch office.

# Cable Ducts

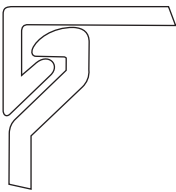
## PVC Cable Ducts

- All ducts are ROHS compliant and FRLS
- Also available in Zero Halogen

Type A	Description	1 meter			2 meter		
	H x W	Cat. No.(Standard slot Grey)	M.R.P. (₹) Per Unit	Min Order Qty	Cat. No.(Standard slot Grey)	M.R.P. (₹) Per Unit	Min Order Qty
	A 15 x 15	WWA1515SG	36	100	WWA1515SG2	72	48
	A 15 x 25	WWA1525SG	53	100	WWA1525SG2	106	48
	A 25 x 25	WWA2525SG	63	100	WWA2525SG2	126	36
	A 30 x 25	WWA3025SG	71	100	WWA3025SG2	142	36
	A 40 x 30	WWA4030SG	87	75	WWA4030SG2	174	24
	A 45 x 25	WWA4525SG	93	75	WWA4525SG2	186	18
	A 45 x 30	WWA4530SG	95	50	WWA4530SG2	190	24
	A 45 x 45	WWA4545SG	112	50	WWA4545SG2	224	18
	A 45 x 60	WWA4560SG	136	50	WWA4560SG2	272	12
	A 60 x 25	WWA6025SG	112	50	WWA6025SG2	224	18
	A 60 x 45	WWA6045SG	134	50	WWA6045SG2	268	18
	A 60 x 60	WWA6060SG	157	50	WWA6060SG2	314	12
	A 60 x 120	WWA60120SG	557	18	WWA60120SG2	1114	8
	A 75 x 45	WWA7545SG	167	40	WWA7545SG2	334	12
	A 75 x 75	WWA7575SG	241	32	WWA7575SG2	482	12
	A 80 x 80	WWA8080SG	276	25	WWA8080SG2	552	12
	A 100 x 100	WWA100100SG	444	18	WWA100100SG2	888	8

Specially designed profiles of duct and cover for fast and efficient locking.

**A Type**  
\* Snap fit cover  
\* Easy to remove

Type B	Description	1 meter			2 meter		
	W x H	Cat. No. (Standard slot)	M.R.P. (₹) Per Unit	Min Order Qty	Cat. No. (Standard slot)	M.R.P. (₹) Per Unit	Min Order Qty
	B 25 x 30	WWB2530SG	68	100	WWB2530SG2	136	36
	B 25 x 40	WWB2540SG	83	75	WWB2540SG2	166	36
	B 25 x 60	WWB2560SG	109	50	WWB2560SG2	218	18
	B 25 x 80	WWB2580SG	149	50	WWB2580SG2	298	18
	B 25 x 100	WWB25100SG	208	50	WWB25100SG2	416	18
	B 30 x 20	WWB3020SG	88	100	WWB3020SG2	176	36
	B 40 x 40	WWB4040SG	109	50	WWB4040SG2	218	18
	B 40 x 60	WWB4060SG	133	50	WWB4060SG2	266	18
	B 40 x 80	WWB4080SG	165	50	WWB4080SG2	330	18
	B 40 x 100	WWB40100SG	218	50	WWB40100SG2	436	12
	B 45 x 20	WWB4520SG	93	75	WWB4520SG2	186	50
	B 50 x 100	WWB50100SG	244	30	WWB50100SG2	488	12
	B 60 x 20	WWB6020SG	128	50	WWB6020SG2	256	18
	B 60 x 40	WWB6040SG	138	50	WWB6040SG2	276	18
	B 60 x 60	WWB6060SG	160	50	WWB6060SG2	320	12
	B 60 x 80	WWB6080SG	216	40	WWB6080SG2	432	12
	B 60 x 100	WWB60100SG	283	30	WWB60100SG2	566	8
	B 72 x 64	WWB7264SG	202	32	WWB7264SG2	404	18
	B 75 x 75	WWB7575SG	286	32	WWB7575SG2	572	8
	B 75 x 100	WWB75100SG	297	25	WWB75100SG2	594	8
	B 80 x 40	WWB8040SG	170	50	WWB8040SG2	340	12
	B 80 x 60	WWB8060SG	213	40	WWB8060SG2	426	12
	B 80 x 80	WWB8080SG	266	32	WWB8080SG2	532	12
	B 80 x 100	WWB80100SG	327	24	WWB80100SG2	654	8
	B 100 x 60	WWB10060SG	261	30	WWB10060SG2	522	8
	B 100 x 80	WWB10080SG	319	25	WWB10080SG2	638	8
	B 100 x 100	WWB100100SG	440	18	WWB100100SG2	880	8
	B 120 x 80	WWB12080SG	435	18	WWB12080SG2	870	8
	B 150 x 100	WWB150100SG	520	12	WWB150100SG2	1040	4

Non slip cover design of minimum encumbrance and maximum grip

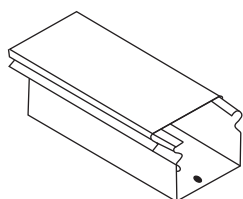
**B Type**  
\* Non - slip cover  
\* Positive locking

Note : 1) For any special colour request additional 10% will be charged on price. For cut length additional 10% will be charged.  
2) Thin / Unslot will be supplied on request. For thin slot replace the cat. number ending with SG by TG,  
For un slotted channel replace the cat. number ending with SG by UG. MRP will be same as standard slot.

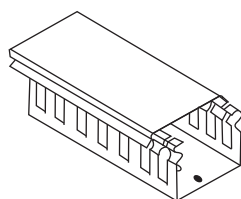
## Cable Duct Covers

Description	Cat. No.	M.R.P. (₹) Per Unit
Cover for 15 mm A type	CCA15SG	17
Cover for 25 mm A type	CCA25SG	27
Cover for 30 mm A type	CCA30SG	33
Cover for 45 mm A type	CCA45SG	54
Cover for 60 mm A type	CCA60SG	65
Cover for 75 mm A type	CCA75SG	80
Cover for 80 mm A type	CCA80SG	97
Cover for 100 mm A type	CCA100SG	118
Cover for 25 mm B type	CCB25SG	27
Cover for 30 mm B type	CCB30SG	33
Cover for 40 mm B type	CCB40SG	43
Cover for 45 mm B type	CCB45SG	54
Cover for 50 mm B type	CCB50SG	65
Cover for 60 mm B type	CCB60SG	65
Cover for 72 mm B type	CCB72SG	80
Cover for 75 mm B type	CCB75SG	80
Cover for 80 mm B type	CCB80SG	96
Cover for 100 mm B type	CCB100SG	118
Cover for 120 mm B type	CCB120SG	128
Cover for 150 mm B type	CCB150SG	149

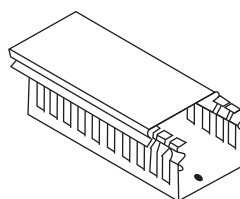
## Slotting Styles (A & B Types)



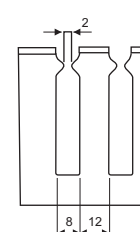
Unslotted  
(US)



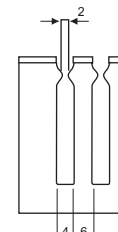
Standard Slotted  
(S)



Thin Slotted  
(T)



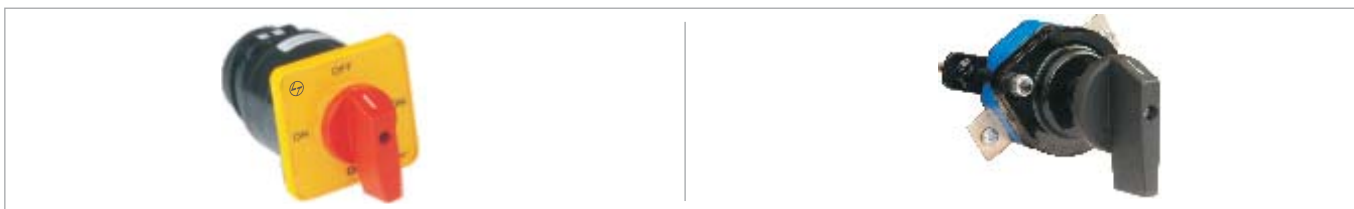
Standard Slot



Thin Slot

## DC Switches

- Available from 16A to 500A
- Used for railway coaches lighting & fan circuits switching, all DC power circuits - Railways, Telecommunications & Power plants, Battery charging equipment
- Please contact nearest branch office for prices



These products are manufactured by **salzer**

### Disclaimer

Every effort as to the correctness or sufficiency of the information and data contained in the catalogue is made. We however cannot accept any liability for the accuracy or completeness of the information and data provided. No claims in this regard shall consequently be accepted.

We reserve the right to make changes, without prior notice, in the catalogue.

Products with CAT no. having, with or without, dot as suffix are same.

# Earth Leakage Relay with CBCT



## A Reliable Safety Device for Protection Against Earth Leakages

- Monitors, detects and protects power systems from earth leakage faults
- Wide range of selectable Earth Leakage Current: 30 mA - 30 A
- Configurable Earth Leakage Trip time: 0 - 10 s
- Wide auxiliary supply range: 110 - 240 VAC, 220 - 415 VAC, 110 V DC, 240 V DC
- Instantaneous trip for 5 times of set value of leakage current
- Percentage wise LED indicators for Earth Leakage Faults
- Manual / Remote reset feature
- 1 C/O + 1 NO relay output


### **Customer Interaction Center (CIC)**

BSNL / MTNL (toll free) : 1800 233 5858 Reliance (toll free) : 1800 200 5858

Tel : 022 6774 5858, Fax : 022 6774 5859 E-mail : [cic@Lntebg.com](mailto:cic@Lntebg.com) / Website [www.Lntebg.com](http://www.Lntebg.com)


# Timing Devices & Supply Monitors

## Timers

Micon 175	Type	Time	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	ON Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	1 C/O	12ODT4	670
			110 VAC/24 VAC/DC		11ODT4	900
			12 VDC		15ODT4	735
	Star Delta Timer	3 sec - 120 sec	240 VAC	1 NO (Star)+1 NO (Delta)	12SDT0	750
		3 sec - 30 sec	240 - 415 VAC	1 C/O (Star)+1 C/O (Delta)	14SDT1S	950
	Signal OFF Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	1 C/O	12RDT4	675
		0.3 sec - 30 hrs	12 VDC		15DDT4	735
	Multifunction Timer	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O	1CMDT0	1145
	Asymmetrical ON/OFF & OFF/ON	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O	1CJDT0	1145
	One Shot	0.3 sec - 30 hrs	110 VAC/24 VAC/DC	1 C/O	11BDT4	845
240 VAC/24 VAC/DC			12BDT4		845	
12 VDC			15BDT4		900	

Pause time for Micon 175 star delta timer is 60 msec


1CMDT0 contains ON Delay, Impulse, Signal ON delay, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Signal OFF/ON, Accumulative Delay ON signal, Impulse ON/OFF, Leading edge impulse, Trailing edge impulse, Leading edge Bistable

Micon 225	Type	Timing Range	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	ON Delay	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2AODT5	1080
	Star Delta Timer	3 sec - 120 sec	24 - 240 VAC/DC	1 NO (Star)+1 NO (Delta)	2ASDT0	1140
			240 - 415 VAC		2BSDT0	1275
	Multifunction Timer	0.1s to 120 days	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed)	2A8DT6	1155
	Multifunction Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2A5DT5	1190
			240 - 415 VAC		2B5DT5	1385
	Signal Base Multi function - Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	1 C/O	2ANDT0	1220
	Multifunction Timer 6 Functions	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed for 6th Mode)	2A6DT6	1230
			240 - 415 VAC		2B6DT6	1255
	True OFF Delay	0.6 sec - 600 sec	24 - 240 VAC/DC	2 C/O	23GDT0	1805
Asymmetrical ON/OFF	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2AADT5	1300	


Pause time for Micon 225 star delta timer is 60 msec, 90 msec, 120 msec, 150 msec

### Major timing functions


2A5DT5, 2B5DT5, 2A6DT6\* and 2B6DT6\* contains ON Delay, Interval, Cyclic ON/OFF, Cyclic OFF/ON, One Shot, ON Delay, On Delay (1 Inst + 1 Delayed)\*  
 2ANDT0 contains ON Delay, Interval, Signal ON Delay, Accumulative ON Delay, Signal OFF Delay, Signal OFF/ON Delay, Leading edge impulse  
 2A8DT6 contains ON Delay, Impulse, Signal ON delay, Signal OFF delay, Step mode, One shot, Interval, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Accumulative Delay ON signal, Impulse ON/OFF.


<b>Digital Timer DIGICON</b> 	Functions	Time	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	8 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	<b>V0DDTS</b>	<b>1250</b>
			24 - 240 VAC/DC	2 NO	<b>V0DDTD</b>	<b>1250</b>
	18 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	<b>V0DDTS1</b>	<b>1420</b>
24 - 240 VAC/DC			2 NO	<b>V0DDTD1</b>	<b>1420</b>	

V0DDTS and V0DDTD contains On Delay, Signal OFF Delay, Cyclic ON/OFF, Signal OFF/ON, Cyclic OFF/ON, Interval, Signal ON/OFF, One Shot output  
V0DDTS1 and V0DDTD1 contains ON Delay, Cyclic OFF/ON, Cyclic ON/OFF, Impulse on energizing, Accumulative Delay ON Signal, Accumulative Delay on Inverted signal, Accumulative Impulse ON signal, Signal ON Delay, Inverted Signal On delay, Signal OFF Delay, Impulse ON/OFF, Signal OFF/ON, Leading edge impulse, Trailing edge impulse, Delayed impulse, Negative edge impulse.


<b>Motor Restart Timer</b> 	Type	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	Motor Restart Timer	Memory time Tm: 0.2 to 6 sec	110 VAC	1 C/O	<b>23LDT0</b>	<b>1300</b>
		Delay time Td: 0.2 to 60 sec	240 VAC		<b>22LDT0</b>	<b>1300</b>

## Time Switches


<b>FM1 / Quartz</b>  150 Hrs Battery Backup	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	FM1 / Quartz Daily	240 VAC Base/DIN Mounting		<b>J648B1</b>	<b>2250</b>
		110 VAC Base/DIN Mounting		<b>J638B1</b>	<b>2710</b>
		240 VAC Flush Mounting		<b>J648F1</b>	<b>2515</b>
		110 VAC Flush Mounting		<b>J638F1</b>	<b>2625</b>
	FM1 / Quartz Weekly	240 VAC Base/DIN Mounting		<b>J848B1</b>	<b>2710</b>
		110 VAC Base/DIN Mounting		<b>J838B1</b>	<b>2710</b>
		240 VAC Flush Mounting		<b>J848F1</b>	<b>2620</b>
		110 VAC Flush Mounting		<b>J838F1</b>	<b>2620</b>

<b>Digital Time Switch</b> 	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	Time Switch (Crono)	110 - 240 VAC 1 C/O Base/DIN 25 ON/OFF		<b>67DDT0</b>	<b>1900</b>
		24 VDC 1 C/O Base/DIN 25 ON/OFF		<b>6GHDT0</b>	<b>2185</b>
		12 VDC 1 C/O Base/DIN 25 ON/OFF		<b>69HDT0</b>	<b>2295</b>
	Time Switch (Pulse) * <b>NEW</b>	110 - 240 VAC 1 C/O Base/DIN 16 Pulse		<b>67DDT9</b>	<b>1935</b>
		24V DC 1 C/O Base /Din 16 Pulse		<b>6GHDT9</b>	<b>2185</b>
12V DC 1 C/O Base /Din 16 Pulse		<b>69HDT9</b>	<b>2295</b>		

\* For bell and siren application

<b>Astro Mini</b> 	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	Time Switch (Astro Mini) 110 - 240 VAC 1 Phase - 2W, 1 C/O, Base/DIN			<b>T2DDT7</b>	<b>3340</b>

Note : Astro Mini / Astro is used for lighting control based on sunrise / sunset timings by latitude / longitude settings.


<b>Astro</b> 	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	<b>Time Switch (Astro)</b>	110 - 240 VAC 1 Phase - 2W 2 Channel 2NO, Base/DIN	<b>T2DDT0</b>	<b>7015</b>
		110 - 240 VAC 3 Phase - 4W 3 Channel 3NO, Base/DIN	<b>T3DDT0</b>	<b>8275</b>
	<b>Accessories</b>	Software on PC for Astro	<b>TGDDT6</b>	<b>650</b>
		USB Interface Cable	<b>GFDNN1</b>	<b>935</b>
Memory Card for Astro		<b>GFDNN3M</b>	<b>500</b>	
<b>3 Phase Astro Accessories</b>	Surge Suppressor	<b>19D2000C</b>	<b>785</b>	
	Astro GSM Module (GSM - ERT5), Remote Side	<b>19D20B00</b>	<b>18685</b>	
	Communication Cable (TTL - TTL) between Astro & GSM Module	<b>19A1000B</b>	<b>485</b>	


## Supply Monitoring Devices


- SPP includes single phasing, phase sequence and phase unbalance monitoring with auto reset

<b>Voltage Monitoring Relay Series</b>  <b>SM 301</b>  <b>SM 500</b>  <b>SM 500 with Neutral Loss Protection</b>  <b>SM 501</b>	Type	Supply Monitoring Type	Time delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	SM301 (3Ph, 3W)	Single Phasing Preventor (SPP*)		ON Delay 2 sec and OFF Delay 7 sec	65 VAC Asymmetry	415 VAC, 1 C/O	<b>MA51BC</b>
					415 VAC, 2 C/O	<b>MC21B5</b>	<b>1155</b>
SM301 (3Ph, 3W)	Selectable Under Voltage + Selectable Over Voltage		Selectable ON Delay (0 to 15 min)	-	240 VAC, 1 C/O	<b>MD71B9</b>	<b>1155</b>
			Selectable ON Delay (0 to 15 sec)	-		<b>MD71BH</b>	<b>1155</b>
			Selectable OFF Delay (0 to 15 sec)	-		<b>MD71BF</b>	<b>1355</b>
SM500 (3 Ph / 1 Ph, 4W)	Single Phasing Preventor + Selectable Under Voltage + Selectable Over Voltage		Selectable ON Delay (0 to 15 min) & OFF Delay 5 sec	Phase Asymmetry 10% fixed	240 VAC, 2 C/O	<b>MG73B9</b>	<b>1420</b>
			Selectable ON Delay (0 to 15 sec) & OFF Delay 5 sec	Phase Asymmetry 10% fixed		<b>MG73BH</b>	<b>1420</b>
			Selectable OFF Delay (0 to 15 sec) & ON Delay 5 sec	Phase Asymmetry 10% fixed		<b>MG73BF</b>	<b>1420</b>
			SPP + UV/OV, with fixed UV (173 V) & OV (288 V)	Phase Asymmetry 20% fixed		<b>MG73BR</b>	<b>1420</b>
			SPP + Selectable UV + Selectable OV with Neutral Loss Protection	94 VAC Asymmetry		<b>MAC04 D0100</b>	<b>1420</b>
SM501 (3 Ph, 3W)	SPP + Under Voltage (80% of $U_n$ )		Selectable ON Delay and OFF Delay 15 sec	Selectable Asymmetry (5% to 17%)	415 VAC, 2 C/O	<b>MB53BM</b>	<b>1420</b>
			Selectable ON Delay 15 sec & OFF Delay 5 sec	Phase Asymmetry 10%		<b>MG53BH</b>	<b>1420</b>
	Single Phasing Preventor + Selectable Under Voltage + Selectable Over Voltage	Selectable OFF Delay 15 sec & ON Delay 5 sec	Phase Asymmetry 10%	<b>MG53BF</b>		<b>1420</b>	
		ON Delay 5 sec and OFF Delay 5 sec	65 VAC Asymmetry	<b>MG53BI</b>		<b>1330</b>	
		ON Delay 3 min and OFF Delay 5 sec UV 85% of $U_n$ / OV 110% of $U_n$	Phase Asymmetry 10%	<b>MG53BO</b>		<b>1330</b>	

Note: 3 Ph 3W - 3 Phase 3 Wire system; 3 Ph 4W - 3 Phase 4 Wire system.

Voltage Monitoring Relay Series 	Type	Supply Monitoring Type	Time Delay	Assymetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
	SM175 (3 Ph, 3W)	Phase loss + Phase Sequence Monitoring		ON Delay 500 msec & OFF Delay 100 msec	-	208 - 480 VAC, 1 C/O (Steps of 208 - 220 - 380 - 400 - 415 - 440 - 480 VAC)	<b>MK21D5</b>	<b>895</b>
				ON Delay 500 msec & OFF Delay 100 msec	Phase Asymmetry (30% fixed)		<b>MC21D5</b>	<b>895</b>
				ON Delay 5 sec & OFF Delay 100 msec (0 to 15s Selectable)	Phase Asymmetry (5% to 15% variable)		<b>MA21DN</b>	<b>1165</b>
		Phase Loss + Phase Sequence + Under Voltage + Over Voltage monitoring (UV: -2% to -20% of $\phi$ , OV: 2% to 20% of $\phi$ )		ON Delay 5 sec and Selectable OFF Delay (0 to 15 sec)	-		<b>MD21DF</b>	<b>1165</b>
			Phase Loss + Phase Sequence + Under Voltage + Over Voltage (UV: -5% to -25% of $\phi$ , OV: 5% to 25% of $\phi$ )		Selectable ON Delay (0.5 to 15 sec) and OFF Delay 5 sec			<b>MG21DH</b>
				ON Delay 5s and Selectable OFF Delay (0 to 15 ses)	Phase Asymmetry 10% fixed		<b>MG21DF</b>	<b>1300</b>

Frequency Monitoring Relay Series 	Relay Type	Time Delay	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
	Over Frequency Monitoring Relay		ON Delay and OFF Delay of 500 ms (Fixed)	110 - 240 VAC, 1 C/O	<b>MI81BJ</b>	<b>1655</b>
				220 - 440 VAC, 1 C/O	<b>MI91BJ</b>	<b>1655</b>
	Under/Over Frequency Monitoring Relay		ON Delay (Fixed) and OFF Delay Selectable	110 - 240 VAC, 1 C/O	<b>MI81BL</b>	<b>1795</b>
				220 - 440 VAC, 1 C/O	<b>MI91BL</b>	<b>1795</b>


Earth Leakage Relays 	Current Range	Type	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
	30mA - 30A	Earth Leakage Relay		110-240 VAC, 110V DC, Manual reset	<b>17G715GF2</b>	<b>2800</b>
				220-415 VAC, 220V DC, Manual reset	<b>17G745GF2</b>	<b>2800</b>
			<b>NEW</b>	15VDC, Manual reset	<b>17G755GF2</b>	<b>2800</b>
				110-240 VAC, 110 VDC, Auto reset	<b>17G715KF2</b>	<b>2800</b>
				220-415 VAC, 220 VDC, Auto reset	<b>17G745KF2</b>	<b>2800</b>
			<b>NEW</b>	15VDC, Auto reset	<b>17G755KF2</b>	<b>2800</b>
		CBCT (moulded case)		38 mm ID	<b>17H7NNHN3</b>	<b>1400</b>
				57 mm ID	<b>17H7NNIN3</b>	<b>1500</b>
				92 mm ID	<b>17H7NNJN3</b>	<b>1700</b>
				215 mm ID	<b>17H7NNKN3</b>	<b>3500</b>
	60mA - 300mA	Earth Leakage Relay*		110-240 VAC, 1 C/O	<b>17G514FF1</b>	<b>2600</b>
				220-415 VAC, 1 C/O	<b>17G544FF1</b>	<b>2600</b>
		CBCT (tape wound)*		35 mm	<b>17H5NNHL3</b>	<b>1400</b>
				65 mm	<b>17H5NNIL3</b>	<b>1500</b>
				100 mm	<b>17H5NNJL3</b>	<b>1700</b>
	0.2A - 1.2A	Earth Leakage Relay*		110-240 VAC, 1 C/O	<b>17G614FF1</b>	<b>2600</b>
			220-415 VAC, 1 C/O	<b>17G644FF1</b>	<b>2600</b>	
CBCT (tape wound)*			35 mm	<b>17H6NNHL3</b>	<b>1400</b>	
			65 mm	<b>17H6NNIL3</b>	<b>1500</b>	
			100 mm	<b>17H6NNJL3</b>	<b>1700</b>	


\* Available till stock lasts.




## Current Monitoring relay (CMR)

- Microprocessor based relay protects against Overload, Phase reverse, Phase loss, Phase unbalance faults
- Auto/ Manual reset selection
- Fail- safe protection with inbuilt CT upto 45A
- Inverse time model with underload, locked rotor protection and selectable trip class (10A, 10, 20, 30)
- Definite time model with underload and selectable start and trip time

Current Monitoring relay	Phase	Type	Current & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
		3 Phase	Inverse Time Current Monitoring Relay	NEW 2 - 5A 1 C/O	<b>17A422CB0</b>
3 - 9A, 1 C/O				<b>17A122CB0</b>	<b>1590</b>
8 - 24A, 1 C/O				<b>17A222CB0</b>	<b>1590</b>
15 - 45A, 1 C/O				<b>17A322CB0</b>	<b>1590</b>
Definite Time Current Monitoring Relay			NEW 2 - 5A 1 C/O	<b>17B422AA0</b>	<b>1590</b>
			3 - 9A, 1 C/O	<b>17B122AA0</b>	<b>1590</b>
		8 - 24A, 1 C/O	<b>17B222AA0</b>	<b>1590</b>	
1 Phase		Inverse Time Current Monitoring Relay	NEW 15 - 45A, 1 C/O	<b>17B322AA0</b>	<b>1590</b>
			NEW 2 - 5A 1 C/O	<b>17B422PA0</b>	<b>1590</b>
			NEW 2 - 5A 1 C/O	<b>17C412EB0</b>	<b>1560</b>
			3 - 9A, 1 C/O	<b>17C112EB0</b>	<b>1560</b>
		Definite Time Current Monitoring Relay	8 - 24A, 1 C/O	<b>17C212EB0</b>	<b>1560</b>
	15 - 45A, 1 C/O		<b>17C312EB0</b>	<b>1560</b>	
NEW 2 - 5A 1 C/O	<b>17D412DA0</b>		<b>1560</b>		
3 - 9A, 1 C/O	<b>17D112DA0</b>		<b>1560</b>		
8 - 24A, 1 C/O	<b>17D212DA0</b>	<b>1560</b>			
15 - 45A, 1 C/O	<b>17D312DA0</b>	<b>1560</b>			

PTC Thermistor Relay Series	Relay Type	Description	Cat. No.	M.R.P. (₹) Per Unit
		Thermistor Relay	110 - 240 VAC, 2 C/O	<b>MJ83BK</b>
220 - 440 VAC, 2 C/O			<b>MJ93BK</b>	<b>1430</b>
24 VAC/DC, 2 C/O			<b>MJA3BK</b>	<b>1655</b>
110 - 240 VAC, 1 C/O			<b>MJ81BK</b>	<b>1305</b>
220 - 440 VAC, 1 C/O			<b>MJ91BK</b>	<b>1320</b>


## Hour Meter & Counter

Hour Meters	Product Description		Cat. No.	M.R.P. (₹) Per Unit
		HM36, 85 - 265 VAC Flush Mounting		<b>LA25F1</b>
HM 36, 10 - 80 VDC Flush Mounting		<b>LD17F1</b>	<b>910</b>	
HM36, 92 - 264 / 270 - 460 VAC Base - DIN Mounting		<b>30A6B1</b>	<b>660</b>	
HM36, 10 - 80 VDC Base/DIN Mounting		<b>30D1B1</b>	<b>910</b>	
Digital Hour Meter/Digital Counter (Resetable)		<b>Z□□FB□</b>	<b>1105</b>	


<b>Hour Meter / Counter</b>	<b>Z□□FB□</b>	
Voltage		Bezel
H 10 - 80 VDC	1 Hour Meter	A Round
7 85 - 265 VAC	2 Counter	B 24 x 48
J 12 - 48 VAC/DC		C Screw Mount

## Electro Mechanical Timers

EM 1000	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	EM 1000 ON Delay Auto Reset Synchronous Timer Single Range		B□□□□□	Table-1
	 <p><b>EM 1000</b>      B□□□□□</p> <p>Timing Ranges(SR)</p> <p>B 0.15 - 3.0 sec            C 1.5 - 30 sec            D 0.15 - 3.0 min            E 1.5 - 30 min            F 0.15 - 3.0 hrs            G 1.5 - 30 hrs            H 0.3 - 6.0 sec            J 3.0 - 60 sec            K 0.3 - 6.0 min            L 3.0 - 60 min            M 0.3 - 6.0 hrs            N 3.0 - 60 hrs            P 0.6 - 12 sec            Q 6.0 - 120 sec            R 0.6 - 12 min            S 6.0 - 120 min            T 0.6 - 12 hrs            V 6 - 120 hrs</p> <p>Timing Ranges (MR)</p> <p>X 0.15 sec - 3.0 hrs            Y 0.3 sec - 6.0 hrs            Z 0.6 sec - 12.0 hrs</p> <p>Voltage</p> <p>3 110 VAC 50 Hz            4 240 VAC 50 Hz            C 110 VAC 60 Hz            D 240 VAC 60 Hz</p> <p>Delay</p> <p>1 Standard ON delay            2 With 'NO VOLT'</p> <p>Mounting</p> <p>B Base Mounting            F Flush (door) Mtg.</p> <p>Contact</p> <p>1 1 Inst + 1 Del C/O            2 1 Inst + 2 Del C/O</p> <p>*Add to basic Price.            Contact : 240 VAC 6A (Resistive)</p>			<p>*190</p> <p>*175</p>

**Table - 1**

Single Range (SR) (In sec/min/hrs)	M.R.P. (₹) Per Unit for Single Range (SR) (In sec/min/hrs)	Multi Range (MR) with 5 Ranges	M.R.P. (₹) Per Unit
0.15 - 3	2950	0.15 sec - 3 hrs	3500
0.3 - 6		0.3 sec - 6 hrs	
0.6 - 12		0.6 sec - 12 hrs	
1.5 - 30			
3.0 - 60			
6.0 - 120			

EM 2000 **	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	EM 2000 On Delay Type Contact **		C□□□B1	1560
	 <p><b>EM 2000</b>      C□□□ B 1</p> <p>Timing Ranges</p> <p>C 1.0 - 30 sec            J 2.0 - 60 sec            Q 4.0 - 120 sec</p> <p>Voltage</p> <p>3 110 VAC 50 Hz            4 240 VAC 50 Hz            5 415 VAC 50 Hz</p> <p>Contact</p> <p>5 1 Del C/O            6 2 Del C/O</p> <p>* Add to basic Price.</p>			<p>*200</p> <p>*190</p>

\*\* Available till stock lasts.

These products are manufactured by



### Disclaimer for Timing Devices and Supply Monitors

Every effort as to the correctness or sufficiency of the information and data contained in the catalogue is made. We however cannot accept any liability for the accuracy or completeness of the information and data provided. No claims in this regard shall consequently be accepted.

We reserve the right to make changes, without prior notice, in the catalogue.

Products with CAT no. having, with or without, dot as suffix are same.

Ready to use Solution

# GEN NEXT ENTEGRAL PUSH BUTTONS

- Compact and Unique design.
- Ready to use solution for OEM & Panel Builders.
- Isolated terminals for NO+NC Application.
- Current rating of 6A at 240V AC.
- IP 20 terminal Protection & IP 65.
- Electrical operation 0.5 million at rated voltage, mechanical life of 1 million operations.

Inbuilt Contact Block

1NO | 1NC | 1NO+1NC | 2NO | 2NC

**Customer Interaction Center (CIC)**

BSNL / MTNL (toll free) : 1800 233 5858 Reliance (toll free) : 1800 200 5858

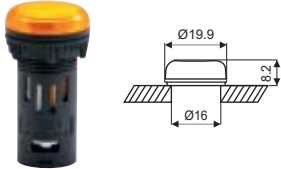

Tel : 022 6774 5858, Fax : 022 6774 5859 E-mail : [cic@Lntebg.com](mailto:cic@Lntebg.com) / Website [www.Lntebg.com](http://www.Lntebg.com)

# Modular Remote Control Units

## Gen Next Series


### Gen Next LED Indicator

- Surface Mounted Device LED technology
- Low Power consumption < 0.6W
- Surge & Low Voltage Glow Protection (LVGP)

Ø16 mm	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Gen Next LED Indicator 16 mm	SIL□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110C - 110 VAC/DC 240A - 240 VAC	106  179 <b>Blue &amp; White</b>
	Gen Next LED Indicator 22.5 mm	EIL□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	114  195 <b>Blue &amp; White</b>
Cluster design				415A - 415 VAC	142 240 <b>Blue &amp; White</b>

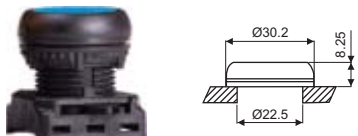

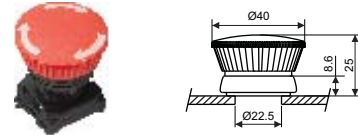
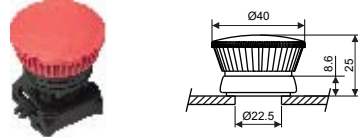
### Gen Next Universal LED Indicator

NEW

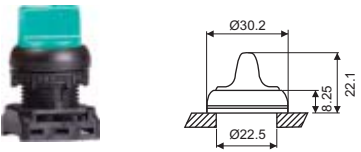






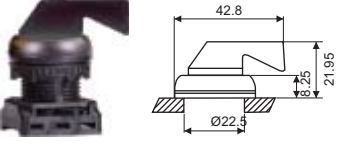






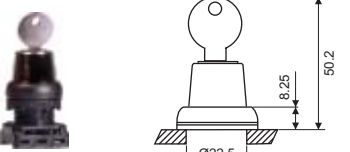






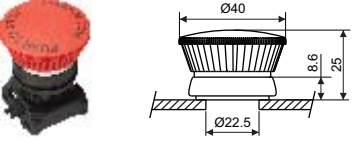
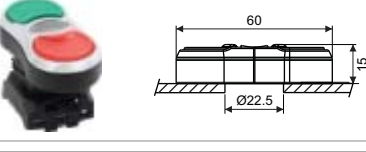
Ø22.5 mm	Description	Cat. No.	Colour (8 <sup>th</sup> Digit)	Voltage (9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> & 12 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Gen Next Universal Voltage LED indicator	EG0100L□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	224C-24 to 240V AC/DC 424C-40 to 240V AC/DC	295  354 <b>Blue &amp; White</b>

### Gen Next Push Button & Selector Actuators Ø 22.5 mm



- Snap Mounting with compact contact blocks (EC1C & EC2C)
- Max 3 row x 3 column stackable contact blocks

	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Flush Head	EMN□FD1	R-Red G-Green C-Black Y-Yellow W-White B-Blue A-Amber F-Gray	57
	Projecting Head Push Function'	EMN□PD1	R-Red G-Green C-Black Y-Yellow W-White B-Blue A-Amber F-Gray	57
	Mushroom Head 'Push - Turn Function'	EMN□MH1	R-Red G-Green C-Black Y-Yellow	113
	Mushroom Head 'Push - Function'	EMN□MD1	R-Red G-Green C-Black Y-Yellow	82

## Gen Next Push Button & Selector Actuators Ø 22.5 mm

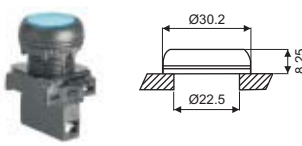
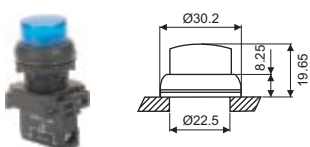
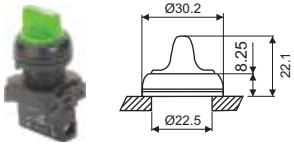




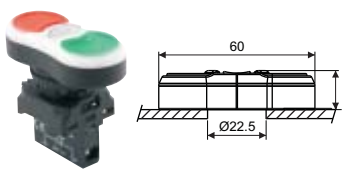
	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Symmetric Head	<b>2 Position</b>  Non Spring Return <b>EMN□SK1</b>	R-Red G-Green C-Black W-White	161
		 Spring Return <b>EMN□SI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□SL1</b>		170
		 Spring Return <b>EMN□SJ1</b>		
		 Spring Return L. H. <b>EMN□SM1</b>		
		 Spring Return R. H. <b>EMN□SN1</b>		
	Lever Head	<b>2 Position</b>  Non Spring Return <b>EMN□LK1</b>	R-Red W-White C-Black	161
		 Spring Return <b>EMN□LI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□LL1</b>		170
		 Spring Return <b>EMN□LJ1</b>		
		 Spring Return L. H. <b>EMN□LM1</b>		
		 Spring Return R. H. <b>EMN□LN1</b>		
	Lock & Key Rotary Type	<b>2 Position</b>  Non Spring Return <b>EMN□KK1</b>	C-Black	232
		 Spring Return <b>EMN□KI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□KL1</b>		242
		 Spring Return <b>EMN□KJ1</b>		
		 Spring Return L. H. <b>EMN□KM1</b>		
		 Spring Return R. H. <b>EMN□KN1</b>		
	Push Pull	<b>EG02MG0□</b>	R-Red	224
	Twin Touch with Black centre strip	<b>EG02TD0I</b>	—	121



- Note :**
1. Actuators & Selector Actuators with black ABS collar are offered as Standard
  2. Actuators (except Mushroom Head Push - Pull Actuators) are also available with chrome plated ABS & Brass collar
    - For Chrome plated ABS Collar replace 7th digit 1 by 3 eg. : **EMNPD3**
    - For Brass Collar replace 7th digit 1 by 2 eg. : **EMNPD2**
  3. For Non-Illuminated Actuator / Selector Actuator at least 1 NO or NC Block required to make a complete Assembly  
eg. **EMNRFD1 + EC1C** makes complete assembly of flush head actuator with 1 NO Block

Note \* - In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style  replace 6th digit from K to T


## Gen Next Illuminated Push Button Actuators

- Snap Mounting with compact contact blocks (EC1C & EC2C)


	Description	Cat. No.	Colour (8 <sup>th</sup> Digit)	Voltage (9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> & 12 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Flush Head	EG03FDL□□□□□	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	164
			B-Blue W-White	110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	302 Blue and White
	Projecting Head (Push Function)	EG03PDL□□□□□	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	164
			B-Blue W-White	110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	302 Blue and White
	Selector Actuator with LED holder	<b>2 Position</b>		R-Red G-Green Y-Yellow A-Amber B-Blue W-White	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC
		 Non Spring Return EG03SKL□□□□□	239		
		 Spring Return EG03SIL□□□□□			
		<b>3 Position</b>			
 Non Spring Return EG03SLL□□□□□	239				
 Spring Return EG03S JL□□□□□		358 Blue and White			
	Twin Touch with Led Holder		EG03TDL□□□□□	Y- Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC

Note\* : 1) In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style , replace 6th digit from K to T.  
2) Assembly comes with LED holder. Please order contact block EC1C and EC2C separately.

## Gen Next Modular Contact Blocks

	Description	Cat. No.	Colour	Voltage	M.R.P. (₹) Per Unit
	'NO' Block	EC1C	-	-	44
	'NC' Block	EC2C	-	-	44

## Spares for Gen Next Series

	Description	Cat. No.	Colour (8 <sup>th</sup> Digit)	Voltage (9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> & 12 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	LED Holder for Gen Next illuminated actuator series	EG08HOL□□□□□	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 030C - 30 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	106
			B-Blue W-White	110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	238 Blue and White

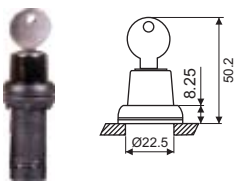






Note : Gen Next Modular Contact Blocks (EC1C and EC2C) can be used only with Gen Next Push Button Actuator



## Gen Next Integral Actuator

- With inbuilt contact arrangement
- Contact rating 6A @ 240AC

	Description	Cat. No.	Contact Configuration (3 <sup>rd</sup> Digit)	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
 	Flush Head	EE□□FD1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	89
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	W-White B-Blue A-Amber C-Black	132
 	Projecting Head Push Function	EE□□PD1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	89
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	W-White B-Blue A-Amber C-Black	132
 	Mushroom Head Push - Turn	EE□□MH1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	133
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	C-Black	181
 	Mushroom Head Push - Function	EE□□MD1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	112
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	C-Black	153
 	Symmetric Head Actuator	<b>2 Position</b>  Non Spring Return <b>EE□□SK1</b>	1 - 1 NO 2 - 1 NC	R-Red G-Green W-White C-Black	184
		 Spring Return <b>EE□□SI1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		225
		<b>3 Position</b>  Non Spring Return <b>EE□□SL1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		233
		 Spring Return <b>EE□□SJ1</b>			
		 Spring Return L. H. <b>EE□□SM1</b>			
		 Spring Return R. H. <b>EE□□SN1</b>			
 	Lever Head	<b>2 Position</b>  Non Spring Return <b>EE□□LK1</b>	1 - 1 NO 2 - 1 NC	R-Red G-Green W-White C-Black	184
		 Spring Return <b>EE□□LI1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		225
		<b>3 Position</b>  Non Spring Return <b>EE□□LL1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		233
		 Spring Return <b>EE□□LJ1</b>			
		 Spring Return L. H. <b>EE□□LM1</b>			
		 Spring Return R. H. <b>EE□□LN1</b>			


## Gen Next Integral Actuator

	Description	Cat. No.	Contact Configuration (3 <sup>rd</sup> Digit)	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit	
	Lock & Key Rotary Type	<b>2 Position</b>		1 - 1 NO 2 - 1 NC	C-Black	<b>235</b>
		 Non Spring Return <b>EE□□KK1</b>	<b>EE□□KK1</b>			
		 Spring Return <b>EE□□KI1</b>	<b>EE□□KI1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		<b>282</b>
		<b>3 Position</b>		3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)		<b>288</b>
		 Non Spring Return <b>EE□□KL1</b>	<b>EE□□KL1</b>			
		 Spring Return <b>EE□□KJ1</b>	<b>EE□□KJ1</b>			
	 Spring Return L. H. <b>EE□□KM1</b>	<b>EE□□KM1</b>				
 Spring Return R. H. <b>EE□□KN1</b>	<b>EE□□KN1</b>					

Note \* - In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style  replace 6th digit from K to T





## Panel Mounted Buzzer Ø 22.5 mm

- IP20 protection
- 80dB at 1 m distance
- Low Power consumption < 0.6W

	Description	Electrical Rating	Cat. No.		M.R.P. (₹) Per Unit
			Round Type	Square Type	
	22.5 mm Panel Mounted Buzzer Black colour	240 VAC	EG15R00C240A	EG15S00C240A	<b>209</b>
		110 VAC	EG15R00C110A	EG15S00C110A	<b>209</b>
		64 VAC/DC	EG15R00C064C	EG15S00C064C	<b>209</b>
		48 VAC/DC	EG15R00C048C	EG15S00C048C	<b>209</b>
		30 VAC/DC	EG15R00C030C	EG15S00C030C	<b>209</b>
		24 VAC/DC	EG15R00C024C	EG15S00C024C	<b>209</b>
12 VAC/DC		EG15R00C012C	EG15S00C012C	<b>209</b>	
















## Gen Next Push Button Stations

- Dimension
- Single Station : 65 x 55 x 33 mm
  - Two Station : 100 x 55 x 53 mm
  - Three Station : 134 x 55 x 53 mm
  - Eight Station : 305 x 55 x 53 mm

	Description	Cat. No.	M.R.P. (₹) Per Unit
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC'	<b>EP1FAC01</b>	<b>325</b>
Flush Head Actuator - Green with Legend - START Contact - 1 'NO'	<b>EP1FAB02</b>	<b>325</b>	
	Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON Contact - 1 'NO'	<b>EP1FAF08</b>	<b>428</b>
	Two Position Lock & Key Rotary Switch with Legend - OFF / ON Contact - 1 'NO'	<b>EP1FAF12</b>	<b>473</b>
	Mushroom Head Actuator 'Push Function' with Legend - STOP Contact - 1 'NC' for Stop	<b>EP1FAC03</b>	<b>346</b>



## Gen Next Push Button Stations

	Description	Cat. No.	M.R.P. (₹) Per Unit
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' for Stop	EP1FAC05	422
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	EP2FAH0201	473
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC'		
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	EP2FAH0205	522
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' (Station Two)		
	LED Indicator 240 VAC - Red (Station One)	EP3FAUI1X0201	637
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station Two)		
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Three)		
	Flush Head Actuator - Green with Legend - FORWARD Contact - 1 'NO' (Station Two)	EP3FAR020102	597
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)		
	Flush Head Actuator - Green with Legend - REVERSE Contact - 1 'NO' (Station Three)		
	Flush Head Actuator - Green with Legend - UP Contact - 1 'NO' (Station Two)	EP3FAS020102	597
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)		
	Flush Head Actuator - Green with Legend - DOWN Contact - 1 'NO' (Station Three)		
	All 7 Flush Head Actuators with NO Contact & Mushroom Head Push Turn	EP8F02	1695
	8 Way push button pendant with hanging provision	EP8F04	1813
	Single Station Enclosure Box without Actuator	EP1FAA	180
	Two Station Enclosure Box without Actuator	EP2FAA	191
	Three Station Enclosure Box without Actuator	EP3FAA	197
	Eight Station Enclosure Box without Actuator	EP8FAA	330

Note: 1. All Gen next push button stations contains integral Actuators.

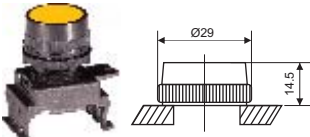
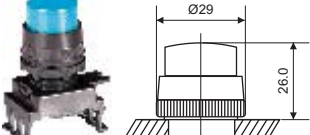
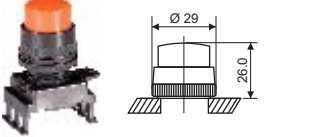
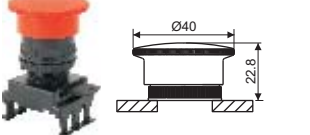
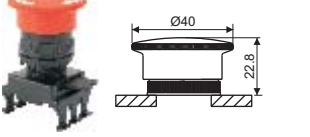
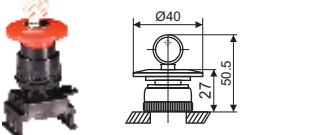
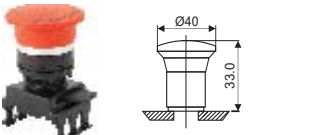
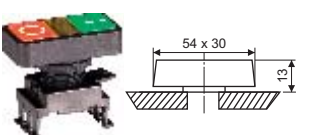







2. Only integral actuators can be used for converting Gen next enclosure boxes into Gen Next push button station.

3. For any other combination of actuators/indicators in push button stations please contact nearest branch office.

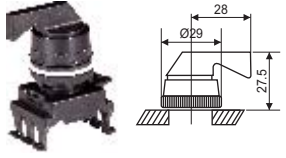






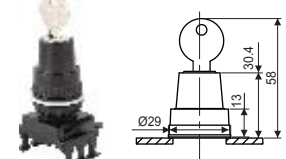






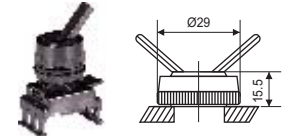

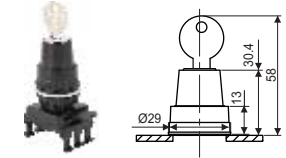

4. EP8F04 is available in single speed for crane application.



## Standard Push Button & Selector Actuators Ø 22.5 mm

- Contact blocks HC61A2 & HC61B2

	Description	Cat. No.	Colour (6 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit	
	Flush Head	<b>HD15C</b> □	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange 8-Colorless	<b>72</b>	
	Projecting Head 'Push Function'	<b>HD45C</b> □	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange 8-Colorless	<b>72</b>	
	Projecting Head 'Push - Push Function'	<b>HF45C</b> □	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>159</b>	
	Mushroom Head Ø 40 mm 'Push Function'	<b>HD55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>100</b>	
	Mushroom Head 'Push Turn'	<b>HH55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>137</b>	
	Mushroom Head With Lock & Key	<b>HQ55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>265</b>	
	Mushroom Head 'Push Pull'	<b>HG55B</b> □	1-Red 2-Green 3-Black 4-Yellow 6-Blue	<b>242</b>	
	Twin Touch	<b>HD15G</b> □	3-Black	<b>142</b>	
	Symmetric Head	<b>2 Position</b>		<b>194</b>	
Non Spring Return			<b>HK65C</b> □		1-Red 2-Green 3-Black 5-White/Opal
Spring Return			<b>HI65C</b> □		
<b>3 Position</b>		<b>206</b>			
Non Spring Return				<b>HL65C</b> □	
Spring Return				<b>HJ65C</b> □	
Spring Return from L. H.				<b>HM65C</b> □	
Spring Return from R. H.			<b>HN65C</b> □		

## Standard Push Button & Selector Actuators Ø 22.5 mm

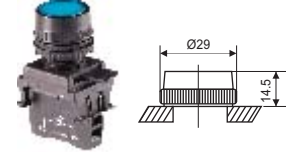
	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit	
	Lever Head	<b>2 Position</b>		1-Red 3-Black 5-White/Opal	194
		Non Spring Return	 <b>HK75C□</b>		
		Spring Return	 <b>HI75C□</b>		
		<b>3 Position</b>			206
		Non Spring Return	 <b>HL75C□</b>		
		Spring Return	 <b>HJ75C□</b>		
		Spring Return from L. H.	 <b>HM75C□</b>		
Spring Return from R. H.	 <b>HN75C□</b>				
	Lock & Key Rotary Type	<b>2 Position</b>		3-Black	265
		Non Spring Return	 <b>HK85C□</b>		
		Spring Return	 <b>HI85C□</b>		
		<b>3 Position</b>			278
		Non Spring Return	 <b>HL85C□</b>		
		Spring Return	 <b>HJ85C□</b>		
		Spring Return from L. H.	 <b>HM85C□</b>		
Spring Return from R. H.	 <b>HN85C□</b>				
	Tip Head	<b>2 Position</b>		1-Red 2-Green 3-Black 4-Yellow 5-White/Opal	162
		Non Spring Return	 <b>HP95C□</b>		
	Lock & Key Push Turn	<b>2 Position</b>		3-Black	278
		Non Spring Return	 <b>HH85C□</b>		

Note \* - In 2 position selector actuator, for operating style  replace 2nd digit from K to R and for operating style  replace 2nd digit from K to T  
 \*\* For Lock & Key, Key removable position Left, Right or Both

- Note :**
1. Actuators & Selector Actuators with black ABS collar are offered as Standard eg. : **HD15 C1**
  2. Actuators (except Mushroom Head Push - Pull & all types of twin touch Actuators) are also available with chrome plated ABS & Brass collar
    - For Chrome plated ABS Collar replace 5<sup>th</sup> digit C by A eg. : **HD15 A1**
    - For Brass Chrome plated ABS Collar replace C by B eg. : **HD15 B1**
  3. For Non-Illuminated Actuator / Selector Actuator at least 1 NO or NC Block required to make a complete Assembly eg. HD15C1 + HC61A2 makes complete assembly of flush head actuator with 1 NO Block



## Standard Illuminated Actuators With LED

- Illuminated Actuators Pre-assembled with LED Holder
- Contact blocks HC61A2 & HC61B2



	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Flush Head	<b>EAL□□□□FD1</b>	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC	185
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	352

## Standard Illuminated Actuators With LED

	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit	
	Projecting Head (Push Function)	EAL□□□□PD1	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC	185	
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	352	
	Projecting Head (Push - Push Function)	EAL□□□□PF1	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC	270	
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	436	
	Twin Touch	EAL□□□□TD1	Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	243	
	Selector Actuator with Gen Next LED	<b>2 Position</b> Non Spring Return  EAL□□□□SK1	R-Red G-Green Y-Yellow A-Amber	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	294	
		<b>2 Position</b> Spring Return  EAL□□□□SI1	B-Blue W-White		436	
		<b>3 Position</b> Non Spring Return  EAL□□□□SL1	R-Red G-Green Y-Yellow A-Amber		307	
		<b>3 Position</b> Spring Return  EAL□□□□SJ1	R-Red G-Green Y-Yellow A-Amber		012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	
		<b>3 Position</b> Spring Return from L. H.  EAL□□□□SM1	B-Blue W-White			450
		<b>3 Position</b> Spring Return from R. H.  EAL□□□□SN1	B-Blue W-White			

Note\* : 1) In 2 position selector actuator, for operating style  replace 10th digit from K to R and for operating style  replace 10th digit from K to T.  
 2) Assembly comes with LED holder. Please order contact block HC61A2 and HC61B2 separately.  
 3) For Illuminated Actuators / Selector Actuators at least 1 LED Holder is required for electrical connection.

## Standard Modular Contact Blocks

	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	'NO' Block	HC61A2	-	-	54
	'NC' Block	HC61B2	-	-	54
	LED Holder for Standard series	EHL□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	012C - 12 VAC/DC 024C - 24 VAC/DC 048C - 48 VAC/DC 064C - 64 VAC/DC 110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	115  271 Blue & White

## Standard Push Button Stations (in ABS Engineering plastic body)






Dimension ● Single Station : 74 x 70 x 48.5 mm ● Two Station : 107 x 70 x 48.5 mm  
● Three Station : 140 x 70 x 48.5 mm

	Description	Cat. No.	M.R.P. (₹) Per Unit
	Mushroom Head Actuator 'Push Function' with Legend - STOP Contact - 1 'NC' for Stop	JAE10000	419
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' for Stop	JAF10000	472
	Mushroom Head Actuator with Lock and Key on Yellow Cover, with legend - STOP, Contact - 1 'NC' for Emergency Stop	JAG10000	575
	Push Button Station with Push Pull Emergency Switch, Red with 1 NC	TJ51B2	511
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC'	JAA10000	393
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO'	JAB20000	393
	Illuminated Actuator - Red with Legend - OFF Contact - 1 'NC' Bulb Holder with Bulb 240 VAC	JAC50000	445
	Illuminated Actuator - Green with Legend - ON Contact - 1 'NO' Bulb Holder with Bulb 240 VAC	JAD60000	465
	Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON Contact - 1 'NO'	JAH20000	519
	Two Position Lock & Key Rotary Switch with Legend - OFF / ON Contact - 1 'NO'	JAI20000	588
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	JBB2A100	568
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)		
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	JBB2F100	630
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC'		
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	JBB2G100	743
	Mushroom Head Actuator 'Locked & Key type' Contact - 1 'NC'		
	Pilot Light 240 VAC Colourless Lens (Station One)	JCZ4B2A1	770
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station Two)		
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Three)		
	Flush Head Actuator - Green with Legend - FORWARD Contact - 1 'NO' (Station One)	JDB2A1B2	722
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)		
	Flush Head Actuator - Green with Legend - REVERSE Contact - 1 'NO' (Station Three)		
	Flush Head Actuator - Green with Legend - UP Contact - 1 'NO' (Station One)	JEB2A1B2	722
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)		
	Flush Head Actuator - Green with Legend - DOWN Contact - 1 'NO' (Station Three)		




Note: All standard push button stations contains base mounted contact blocks.

## Standard Push Button Stations (in ABS Engineering plastic body)

### Push Buttons Station Enclosure with contact block





	Description		Cat. No.	M.R.P. (₹) Per Unit
		All Grey single hole		<b>HF999004</b>
	All Grey & 2 hole of Ø 22.5		<b>HF999005</b>	<b>219</b>
	All Grey & 3 holes of Ø 22.5		<b>HF999003</b>	<b>219</b>
	Single hole yellow cover & gray base		<b>HF995001</b>	<b>201</b>
	Base mounted contact block for Push Button Stations	'NO' Contact Block	<b>HC42A2</b>	<b>63</b>
		'NC' Contact Block	<b>HC42B2</b>	
		1 'NO' + 1 'NC' Contact Block	<b>HC42C2</b>	<b>100</b>
		2 'NO' Contact Block	<b>HC42D2</b>	<b>100</b>
		2 'NC' Contact Block	<b>HC42E2</b>	
		Bulb Holder with Bulb 240 VAC+ 'NO' Contact Block	<b>HC22N1</b>	<b>138</b>
		Bulb Holder with Bulb 240 VAC+ 'NC' Contact Block	<b>HC22O1</b>	

## Standard All Purpose Enclosures


 Dimension: 110 x 80 x 65 mm	Description		Cat. No.	M.R.P. (₹) Per Unit
		All Grey without hole		<b>HF999000</b>
	All Grey & 1 hole of Ø 22.5		<b>HF999001</b>	<b>219</b>
	All Grey & 2 holes of Ø 22.5		<b>HF999002</b>	<b>219</b>
 Dimension: 170 x 85 x 80 mm	4 Station Enclosure (maximum 3 NO/NC per button)		<b>HF999024</b>	<b>519</b>
 Dimension: 80 x 82 x 85 mm	1 Station Enclosure (maximum 4 NO or NC)		<b>HF999026</b>	<b>397</b>

Note: All series actuators and contact block can be used to convert all purpose enclosure box into standard push button station.


## Accessories and Spares for Standard series

Clips for Modular Blocks	Description	Cat. No.	M.R.P. (₹) Per Unit	Clips for Modular Blocks	Description	Cat. No.	M.R.P. (₹) Per Unit
	Second Row Clip (For Vertical Cascading)	HC122030	16		First Row Clip	HC922002	16
	Side Row Clip (For Horizontal Cascading)	HC929002			Single Leg Clip	HE102000	

Note : First Row Clip is included for all std series Push Button Actuators, Selector Actuators & Mushroom Head Assembly

Shroud (Boot) for Actuator	Cat. No.	Colour	M.R.P. (₹) Per Unit
	HH152002	Red	14
	HH153003	Green	
	HH154004	Black	
	HH155005	Yellow	
	HH150100	Colourless	20




(For IP67 protection with standard series actuators)

Spare Lens Cap	Colour	Cat. No.		M.R.P. (₹) Per Unit
		Non Illuminated	Illuminated	
	Red	HB103002	HB103103	11
	Green	HB104000	HB104101	
	Black	HB102006	NA	
	Yellow	HB105008	HB105109	
	White/Opal	HB101004	HB101105	
	Blue	HB107010	HB107111	
	Orange	HB108012	HB108113	
	Colourless	NA	HB100107	


Note: It can be used for Gen Next as well as standard actuators.


Collar (For Flush/Projecting Head)	Cat. No.	Colour	M.R.P. (₹) Per Unit
	HB196000	Chrome Plated 'ABS'	10
	HB192000	Black	10
	HB326000	Brass	33
Adaptor Ring * (For 30 to 22 mm in Panel Cutout conversion)	HH180000	Gray	15
	HH182004	Black	
	HH196006	Chrome Plated 'ABS'	
Blanking Plugs	HH180002	Gray	29
	HH182009	Black	
	HH196010	Chrome Plated 'ABS'	
Center Indication Strip (For Twin Touch Actuator)	HB102058	Black	29
	HB105163	Yellow	
	HB108169	Orange	
	HB100161	Colourless	

\* It can be used to convert Gen Next actuator series to TK3 Ø30 mm mounting.

Metal Plates - Spare	Cat. No.	M.R.P. (₹) Per Unit
 Small	HH2420122	12
 Large	HH2420124	12
 Square	HH2420123	12

Note: Printing as per customer requirement

Fixing Device	Cat. No.	M.R.P. (₹) Per Unit
	HH192000	41

Plastic Plate	Cat. No.	M.R.P. (₹) Per Unit
 Yellow legend plate	HB135000	35
 Protecting Shroud	HF195004	35

These products are manufactured by



# Discontinued products

## The following products have been discontinued Timing Devices & Supply Monitors

Timer Type	Discontinued		Alternate	
	Family	Cat. Nos.	Family	Cat. Nos.
Multifunction timer	Micon 350	37EDT4, 33EDT7, 36EDT7	Micon 225	2A6DT6
Multifunction timer	Micon 780	74MDT0, 70MDT0, 76MDT0	Micon 225	2A6DT6, 2B6DT6 (DIN Rail)
Star Delta timer		74SDT0		2BSDT0 (DIN Rail)
Star Delta timer		70SDT0		2ASDT0 (DIN Rail)
Asymmetrical timer		70ADT0, 74ADT0		2AADT5 (DIN Rail)
Multifunction timer		40MFS0, 40MFE0		Digicon, Micon 225
Assymetrical ON/OFF	Micon 480	40AFS0	Digicon, Micon 225	2AADT5 (DIN Rail Mounting)
Star Delta timer		40SFS0	Digicon, Micon 225	2ASDT0 (DIN Rail Mounting)
ON Delay timer		47OFE8, 43OFE8, 46OFE8	Digicon, Micon 225	2A6DT6 (DIN Rail Mounting)
Assymetrical ON/OFF and OFF/ON		Micon 225	2AJDT0	Micon 175
Hour meter	HM 48	K54SF1	HM 36	LA25F1
ON Delay timer	Micon 225	29ODT5	Micon 175	11ODT4 / 15ODT4
Assymetrical ON/OFF		25ADT5		1CJDT0
Time Switches	Digi 20	D847B2	Crono	67DDT0
		D847F2		
Thermistor Relay+SPP	Supply Monitors	ML64BS	-	-
		ML67BS		
		MLD4BS		
		MLD7BS		

## Modular Remote Control Units

Family Type	Actuator Type	Discontinued Cat. Nos.	Alternate Cat. Nos.
Standard series Illuminated Push button actuators	Flush head	HD16C□	EAL□□□□□FD1
	Projecting head push function	HD46C□	EAL□□□□□PD1
	Projecting head push push function	HF46C□	EAL□□□□□PF1
	Twin touch	HD16G□	EAL□□□□□TD1
Standard series Illuminated selector actuators	2 Position NSR	HK66C□	EAL□□□□□SK1
	2 Position SR	HI66C□	EAL□□□□□SI1
	3 Position NSR	HL66C□	EAL□□□□□SL1
	3 Position SR	HJ66C□	EAL□□□□□SJ1
	3 Position SR from LH	HM66C□	EAL□□□□□SM1
	3 Position SR from RH	HN66C□	EAL□□□□□SN1
Standard Series LED Indicator	TT Series indicator	TT□□□□	EIL□□□□
	TM Series indicator	TMO□XI	EIL□□□□
Standard Series Universal LED Indicator	Standard Series	TP□□Z1/TP□□Z2	EG0100L□□□□□

PS: EAL series comes with inbuilt LED holder

\* 6<sup>th</sup> digit indicates colour

\* 4<sup>th</sup> digit indicates colour and 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> digit indicates voltage

### Disclaimer for Modular Remote Control Unit

Every effort as to the correctness or sufficiency of the information and data contained in the catalogue is made. We however cannot accept any liability for the accuracy or completeness of the information and data provided. No claims in this regard shall consequently be accepted.

We reserve the right to make changes, without prior notice, in the catalogue.

Products with CAT no. having, with or without, dot as suffix are same.







## General Terms

All prices are on maximum retail price basis inclusive of Excise Duty and VAT / Sales Tax as applicable.

Prices are subject to revision without notice.

## Warranty Policy

All the products listed in the price list carry a warranty, against manufacturing defects for a period of 18\* months from the date of purchase.

Should the product prove to be defective due to faulty workmanship or otherwise, we will remedy the defect or replace the faulty parts or the whole product at our discretion, as soon as possible, free of cost.

The warranty is however subject to the provision of proper usage, efficient maintenance and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. It also does not cover damage to power electronic components like thyristors & IGBTs, which fail predominantly due to over-temperature & over-voltage. The user needs to take adequate precautions to eliminate these conditions. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

## Comprehensive Service Support

L&T has over five decades of experience in providing after sales service for low voltage distribution systems in every type of industry & commercial complex in India.

L&T offers the following services, partnering you in your maintenance of low voltage distribution products :

- Regular Maintenance
- Preventive Maintenance Programme
- On Call
- Annual Maintenance Contract
- Product Support for Managing Obsolescence - Retrofitting & Upgradation of your switchgear products

\* Proof of purchase to be retained to avail warranty

## Electrical Standard Products (ESP) Offices:

### HEAD OFFICE

L&T Business Park,  
Tower 'B' / 3rd Floor  
Saki Vihar Road, Powai  
**Mumbai 400 072**  
Tel: 022-67053229  
Fax: 022-67051112  
e-mail: cic@LNTEBG.com

### BRANCH OFFICES

501, Sakar Complex I  
Opp. Gandhigram Rly. Station  
Ashram Road  
**Ahmedabad 380 009**  
Tel: 079-66304006-11  
Fax: 079-66304025  
e-mail: esp-ahm@LNTEBG.com

38, Cubbon Road, P. O. Box 5098  
**Bengaluru 560 001**  
Tel: 080-25020100 / 25020324  
Fax: 080-25580525  
e-mail: esp-blr@LNTEBG.com

131/1, Zone II  
Maharana Pratap Nagar  
**Bhopal 462 011**  
Tel: 0755-3080511 / 05 / 08 / 13 / 17 / 19  
Fax: 0755-3080502  
e-mail: esp-bho@LNTEBG.com

Plot No. 559, Annapurna Complex  
Lewis Road  
**Bhubaneswar 751 014**  
Tel: 0674-6451342 / 2436690 / 2436696  
Fax: 0674-2537309  
e-mail: esp-bsr@LNTEBG.com

Aspire Towers, 4th Floor  
Plot No. 55, Phase-I  
Industrial & Business Park  
**Chandigarh-160 002**  
Tel: 0172-4646840 / 41 / 42 / 46 / 53  
Fax: 0172-4646802  
Email: esp-chd@Lntebg.com

L&T Construction Campus  
TC-1 Building, II Floor  
Mount-Poonamallee Road  
Manapakkam  
**Chennai 600 089**  
Tel: 044-2270 6800  
Fax: 044-22706940  
e-mail: esp-maa1@LNTEBG.com

67, Appuswamy Road  
Post Bag 7156  
Opp. Nirmala College  
**Coimbatore 641 045**  
Tel: 0422-2588120 / 1 / 5  
Fax: 0422-2588148  
e-mail: esp-cbe@LNTEBG.com

Khairasol, Degaul Avenue  
**Durgapur 713 212**  
Tel: 0343-2540448 / 2540449 / 2540443  
Fax: 0343-2540442  
e-mail: esp-dgp@LNTEBG.com

5, Milanpur Road, Bamuni Maidan  
**Guwahati 781 021**  
Tel: +91 8876554410 / 8876554417  
Fax: 361-2551308  
e-mail: esp-ghy@LNTEBG.com

II Floor, Vasantha Chambers  
5-10-173, Fateh Maidan Road  
**Hyderabad 500 004**  
Tel: 040-67015052  
Fax: 040-23296468  
e-mail: esp-hyd@LNTEBG.com

Monarch Building, 1st Floor  
D-236 & 237, Amrapali Marg  
Vaishali Nagar  
**Jaipur 302 021**  
Tel: 0141-4385914 to 18  
Fax: 0141-4385925  
e-mail: esp-jai@LNTEBG.com

Akashdeep Plaza, 2nd Floor  
P. O. Golmuri  
**Jamshedpur 831 003**  
Jharkhand  
Tel: 0657-2312205 / 38  
Fax: 0657-2341250  
e-mail: esp-jam@LNTEBG.com

Skybright Bldg; M. G. Road  
Ravipuram Junction, Ernakulam  
**Kochi 682 016**  
Tel: 0484-4409420 / 4 / 5 / 7  
Fax: 0484-4409426  
e-mail: esp-cok@LNTEBG.com

3-B, Shakespeare Sarani  
**Kolkata 700 071**  
Tel: 033-42005982  
Fax: 033-22821025 / 7587  
e-mail: esp-ccu@LNTEBG.com

A28, Indira Nagar, Faizabad Road  
**Lucknow 226 016**  
Tel: 0522-4929905 / 04  
Fax: 0522-2311671  
e-mail: esp-Lko@LNTEBG.com

No: 73, Karpaga Nagar, 8th Street  
K. Pudur  
**Madurai 625 007**  
Tel: 0452-2567405 / 2561068 / 2561657  
Fax: 0452-2567552  
e-mail: esp-mdu@LNTEBG.com

L&T Business Park,  
Tower 'B' / 5th Floor  
Saki Vihar Road, Powai  
**Mumbai 400 072**  
Tel: 022-67052874 / 2737 / 1156  
Fax: 022-67051112  
e-mail: esp-bom@LNTEBG.com

12, Shivaji Nagar  
North Ambajhari Road  
**Nagpur 440 010**  
Tel: 0712-2260012 / 6606421  
Fax: 2260030 / 6606434  
e-mail: esp-nag@LNTEBG.com

32, Shivaji Marg  
P. O. Box 6223  
**New Delhi 110 015**  
Tel: 011-41419514 / 5 / 6  
Fax: 011-41419600  
e-mail: esp-del@LNTEBG.com

L&T House  
P. O. Box 119  
191/1, Dhole Patil Road  
**Pune 411 001**  
Tel: 020-66033395 / 66033279  
Fax: 020-26164048 / 26164910  
e-mail: esp-pnq@LNTEBG.com

Crystal Tower,  
4th Floor, G. E. Road  
Telibandha  
**Raipur - 492 006**  
Tel: 0771-4283214  
e-mail: esp-raipur@LNTEBG.com

3rd Floor  
Vishwakarma Chambers  
Majura Gate, Ring Road  
**Surat 395 002**  
Tel: 0261-2473726  
Fax: 0261-2477078  
e-mail: esp-sur@LNTEBG.com

Radhadaya Complex  
Old Padra Road  
Near Charotar Society  
**Vadodara 390 007**  
Tel: 0265-6613610 / 1 / 2  
Fax: 0265-2336184  
e-mail: esp-bar@LNTEBG.com

Door No. 49-38-14/3/2, 1st floor,  
NGGO's Colony, Akkayyapalem,  
**Visakhapatnam - 530 016**  
Tel: 0891-2791126 / 2711125  
Fax: 0891-2791100  
Email: esp-viz@LNTEBG.com

Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here. Product photographs shown are for representative purpose only.



**Larsen & Toubro Limited, Electrical Standard Products**  
Powai Campus, Mumbai 400 072

### Customer Interaction Center (CIC)

BSNL / MTNL (toll free) : 1800 233 5858 Reliance (toll free) : 1800 200 5858  
Tel : 022 6774 5858, Fax : 022 6774 5859  
E-mail : cic@Lntebg.com / Website www.Lntebg.com

**Registered Office:** L&T House, N. M. Marg, Ballard Estate, Mumbai 400 001, INDIA **CIN:** L99999MH1946PLC004768