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### 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, UPSIDE, P.O. Sarojini Nagar,  
Lucknow: 226 008.  
Tel: (0522) 247 6110 / 099355 63239  
Fax: (0522) 247 6015  
E-mail : STC-LUCKNOW@LNTEBG.COM



### Delhi

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Switchgear Training Centre  
32, Shivaji Marg, Near Moti Nagar Metro Station  
P.O. Box 6223, New Delhi: 110015.  
Tel: +91 011 41419515 / 41419516 / 41419500  
Fax: +91 011 41419600  
E-mail: STC-DELHI@LNTEBG.COM



### Coonoor

Larsen & Toubro Limited  
Switchgear Training Centre Ooty-Coonoor  
Main Road, Yellanaahalli  
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 - 390 019.  
Tel: +91 265 245 7805  
E-mail : STC-VADODARA@LNTEBG.COM



### Kolkata

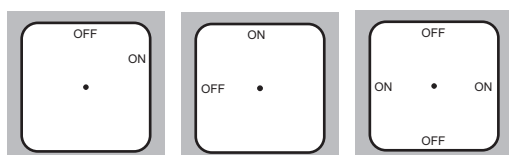
Larsen & Toubro Limited  
Switchgear Training Centre  
4th Floor, 3-B, Shakespeare Sarani,  
Kolkata: 700071  
Tel: +91 033 44002151  
E-mail: STC-KOLKATA@LNTEBG.COM

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# Rotary Switches and Load Break Switches

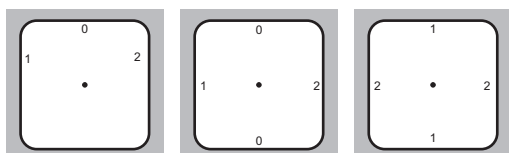
## Cam Operated Rotary Switches



### Isolators Switches

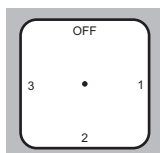
60° Operation	90° Operation	90° Operation Complete Rotation	Description	M.R.P. (₹) Per Unit								
				Cat. No.								
				6A	10A	16A	25A	32A	40A	63A	100A	200A
61001	61191	61195	1 Pole ON - OFF	109	211	249	265	332	422	494	2593	3348
61002	61192	61198	2 Pole ON - OFF	139	240	284	326	385	511	631	3240	4362
61003*	61199	61197	3 Pole ON - OFF	152	320	332	427	475	595	854	3989	5448
61004	61194	61196	4 Pole ON - OFF	187	326	355	518	553	673	1015	4620	6479

Offered upto 12 Pole



### Changeover Switches

With Center OFF (60°)	With OFF (90°)	Without OFF (90°) with Complete Rotation	Description	M.R.P. (₹) Per Unit								
				Cat. No.								
				6A	10A	16A	25A	32A	40A	63A	100A	200A
61025	61151	61037	1 P 2W W/OFF	139	265	312	332	369	494	667	3348	4842
61026	61152	61038	2 P 2W W/OFF	187	320	355	446	518	678	1015	4901	7378
61027	61153	61039	3 P 2W W/OFF	230	397	475	673	728	854	1364	6347	9441
61028	61154	61040	4 P 2W W/OFF	284	463	547	883	931	1027	1710	8015	11786



### Phase Changeover (PS Series Switches)

Cat. No.	Description	M.R.P. (₹) Per Unit			
		25A	32A	40A	63A
61060	1 P 3W W/OFF	322	402	586	660

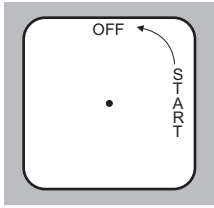
Note : Prices are available on request for higher than 4 Pole ON-OFF version.

\* Please contact nearest L&T branch office for prices.

‡ Motor Duty Switch (AC-3 Duty)

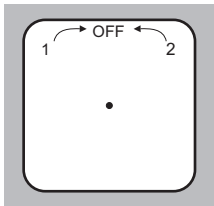
## Spring Return Switches

### ON - OFF Spring Return Switches



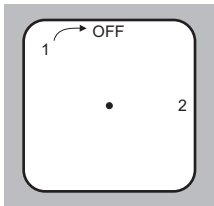
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P ON - OFF	61351	536	812
2 P ON - OFF	61352	559	918
3 P ON - OFF	61353	637	1099
4 P ON - OFF	61354	750	1200

### Double Throw with Spring Return Switches



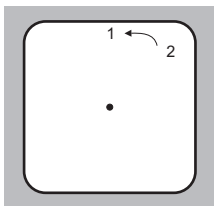
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 2W W/OFF SPR RTN	61361	559	918
2 P 2W W/OFF SPR RTN	61362	817	1200
3 P 2W W/OFF SPR RTN	61363	901	1495

### One Side Spring Return Switches



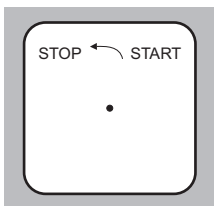
Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 3W SPR RTN - OFF from 1	61364	511	918
2 P 3W SPR RTN - OFF from 1	61365	750	1200
3 P 3W SPR RTN - OFF from 1	61369	817	1495

### Spring Return Switches without OFF



Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P 2W SPR RTN - from 2 to 1	61371	511	918
2 P 2W SPR RTN - from 2 to 1	61372	750	1200
3 P 2W SPR RTN - from 2 to 1	61373	817	1495

### Start Stop Spring Return Switches

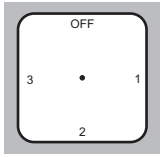


Description	Cat. No.	M.R.P. (₹) Per Unit	
		16A	25A
1 P Start Stop SPR RTN	61300	637	918
2 P Start Stop SPR RTN	61388	750	1200

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

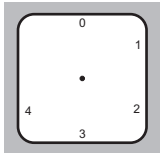
# Multi Step Switches with OFF

## Multi Step Switches with OFF



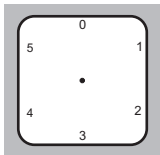
3 Way

Description	Cat. No.	M.R.P. (₹) Per Unit									
		6A	10A	16A	25A	32A	40A	63A	100A	200A	
1 P 3W W/OFF	61060	164	302	326	322*	402*	586*	660*	3403	5166	
2 P 3W W/OFF	61080	230	355	397	529	572	823	926	5003	7901	
3 P 3W W/OFF	61100	332	475	673	788	860	1099	1429	6533	10371	
4 P 3W W/OFF	61131	422	608	817	985	1081	1470	1716	8254	13005	



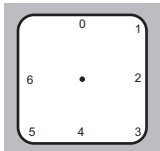
4 Way

1 P 4W W/OFF	61061	192	272	475	559	620	704	955	***	***
2 P 4W W/OFF	61081	332	511	559	590	686	***	1117	***	***
3 P 4W W/OFF	61101	457	***	890	985	1130	***	1716	12082	***
4 P 4W W/OFF	61132	553	955	1130	1183	1262	1652	1980	16951	***



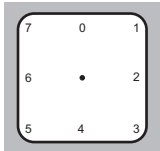
5 Way

1 P 5W W/OFF	61062	211	433	547	697	709	***	1021	***	***
2 P 5W W/OFF	61082	385	667	728	949	1117	1147	1435	***	***
3 P 5W W/OFF	61102	511	1225	1262	1345	***	1657	1940	16082	***



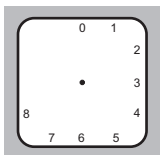
6 Way

1 P 6W W/OFF	61063	277	***	529	***	721	745	***	***	***
2 P 6W W/OFF	61083	457	***	770	***	***	***	***	***	***
3 P 6W W/OFF	61103	637	***	1453	1585	***	***	1998	***	***



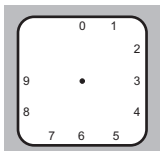
7 Way

1 P 7W W/OFF	61064	284	500	572	709	740	770	1195	***	***
2 P 7W W/OFF	61084	480	***	757	1111	***	1183	1897	***	***
3 P 7W W/OFF	61104	661	***	1225	1459	***	1525	2629	***	***



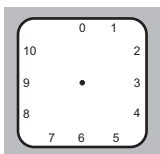
8 Way

1 P 8W W/OFF	61065	320	***	566	974	***	1219	***	***	***
2 P 8W W/OFF	61085	524	***	1033	***	***	***	***	***	***



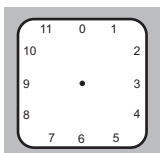
9 Way

1 P 9W W/OFF	61066	332	***	***	***	***	***	***	***	***
2 P 9W W/OFF	61086	595	***	1513	***	***	***	***	***	***



10 Way

1 P 10W W/OFF	61067	385	***	788	***	***	***	***	***	***
2 P 10W W/OFF	61087	613	***	***	***	***	***	***	***	***



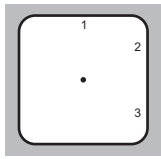
11 Way

1 P 11W W/OFF	61068	457	***	721	1812	***	***	***	***	***
2 P 11W W/OFF	61088	697	***	***	***	***	***	***	***	***

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

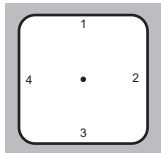
# Multi Step Switches without OFF

## Multi Step Switches without OFF



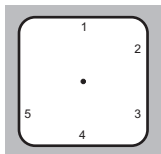
3 Way

Description	Cat. No.	M.R.P. (₹) Per Unit									
		6A	10A	16A	25A	32A	40A	63A	100A	200A	
1 P 3W W/O OFF	61049	157	334	374	409	427	656	740	***	***	
2 P 3W W/O OFF	61069	230	439	463	788	***	823	974	5003	***	
3 P 3W W/O OFF	61089	332	547	697	788	860	***	1429	***	10371	
4 P 3W W/O OFF	61120	422	608	806	1003	1058	2346	2586	***	***	



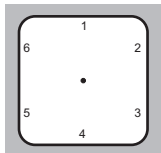
4 Way

1 P 4W W/O OFF	61050	176	391	404	494	518	834	997	3403	***
2 P 4W W/O OFF	61070	259	457	475	584	637	860	1117	5256	8489
3 P 4W W/O OFF	61090	350	446	757	931	1027	1124	1501	6923	11445
4 P 4W W/O OFF	61121	488	608	883	1124	1195	1501	2005	8506	14481



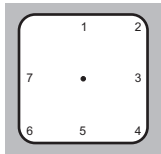
5 Way

1 P 5W W/O OFF	61051	211	296	542	697	***	***	***	***	***
2 P 5W W/O OFF	61071	385	***	595	***	***	***	***	***	10755
3 P 5W W/O OFF	61091	511	***	1262	1345	***	1375	1998	***	***



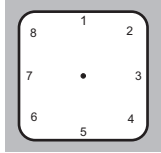
6 Way

1 P 6W W/O OFF	61052	224	***	542	649	709	829	1046	5003	9790
2 P 6W W/O OFF	61072	446	***	733	1105	1135	1147	1465	9970	12813
3 P 6W W/O OFF	61092	542	1147	1262	1291	1334	1495	1998	16951	26799



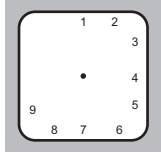
7 Way

1 P 7W W/O OFF	61053	277	***	***	733	***	***	***	8818	***
2 P 7W W/O OFF	61073	480	***	817	1124	***	***	***	***	***
3 P 7W W/O OFF	61093	661	***	1351	***	***	***	2689	***	***



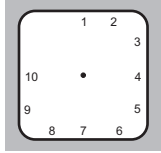
8 Way

1 P 8W W/O OFF	61054	284	595	613	740	781	865	1262	***	***
2 P 8W W/O OFF	61074	505	***	1033	1124	***	***	***	***	***
3 P 8W W/O OFF	61094	709	***	1476	1532	1560	1788	2826	***	***



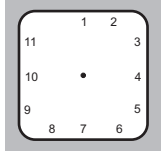
9 Way

1 P 9W W/O OFF	61055	332	***	979	***	***	***	***	***	***
2 P 9W W/O OFF	61075	559	***	931	***	***	***	***	***	***



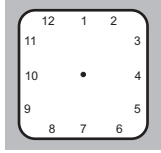
10 Way

1 P 10W W/O OFF	61056	355	631	1087	***	***	***	***	***	***
2 P 10W W/O OFF	61076	620	***	***	***	***	***	***	***	***



11 Way

1 P 11W W/O OFF	61057	656	***	***	***	***	***	***	***	***
2 P 11W W/O OFF	61077	750	***	***	***	***	***	***	***	***



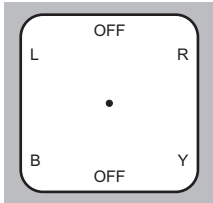
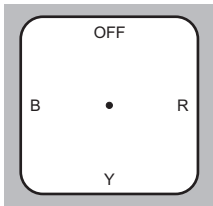
12 Way

1 P 12W W/O OFF	61058	692	***	806	***	1993	***	***	***	***
2 P 12W W/O OFF	61078	812	***	***	***	***	***	***	***	***

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

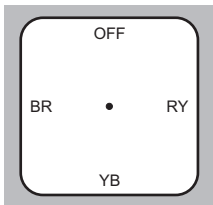
# Instrument Switches

## Ammeter Selector Switches

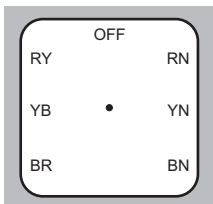


Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Line Currents with OFF with CT	61325 SAB13TDYR	6A	235
Line Currents with OFF with CT	61325 SBB13TDYR	10A	284
Line Currents with OFF with CT	61325 SCB03TDYR	16A	355
Line Currents with OFF without CT	71000 SCB03TDYR	16A	979
Direct Currents with OFF without CT	71000 SEB03TDYR	25A	1117
Direct Currents with OFF without CT	71000 SGB03TDYR	40A	***
Direct Currents with OFF without CT	71000 SIB03TDYR	63A	2431
Current in each phase and leakage of out of balance current with OFF	71721 SBB13TDYR	10A	536

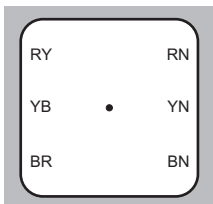
## Voltmeter Selector Switches



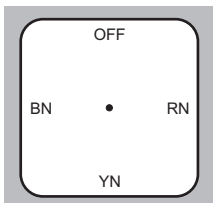
Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases with OFF	61312 SAB13TDYR	6A	169
Voltage between Phases with OFF	61312 SBB13TDYR	10A	259
Voltage between Phases with OFF	61312 SCB03TDYR	16A	320



Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SAB13TDYR	6A	302
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SBB13TDYR	10A	518
Voltage between Phases & Individual Phases to Neutral with OFF	61313 SCB03TDYR	16A	601

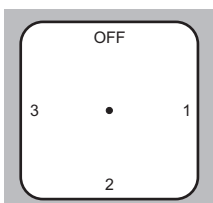


Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phase & Phase to Neutral without OFF	61314 SBB13TDYR	10A	511



Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases & Phase to Neutral without OFF	61311 SAB13TDYR	6A	302
Voltage between Phases & Phase to Neutral with OFF	61311 SBB13TDYR	10A	350

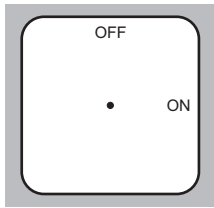
## Ammeter & Voltmeter Combined Switch



Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
Voltage between Phases to Neutral & Current of that Phase	61338 SBB13TDYR	10A	547

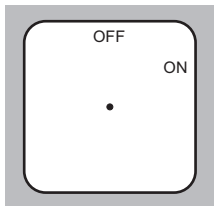


## Power Factor Meter Switches

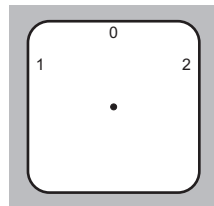


Description	Cat. No.	Amps	M.R.P. (₹) Per Unit
One Current One Voltage Transformer	<b>73078 SCB03TDYR</b>	16A	<b>296</b>
Two Current Two Voltage Transformers	<b>73079 SCB03TDYR</b>	16A	<b>601</b>

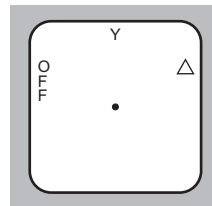
## Motor Duty Switches



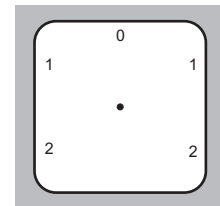
61003



61211



61200

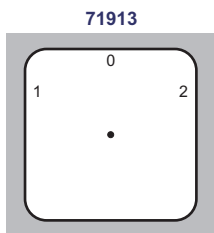


61217

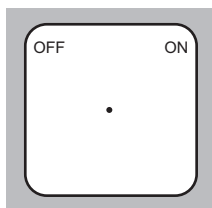
Description	Cat. No.	M.R.P. (₹) Per Unit						
		16A	25A	32A	40A	63A	100A	200A
ON - OFF Switch	<b>61003</b>	<b>510</b>	<b>614</b>	<b>683</b>	<b>855</b>	<b>1229</b>	<b>4388</b>	<b>5720</b>
FOR - OFF - REV Switch	<b>61211</b>	<b>385</b>	<b>457</b>	<b>542</b>	<b>1412</b>	<b>1716</b>	<b>4374</b>	<b>7050</b>
Star - Delta Switch	<b>61200</b>	<b>511</b>	<b>644</b>	<b>812</b>	<b>1237</b>	<b>1585</b>	***	***
2 Speed for FOR - OFF - REV Switch	<b>61217</b>	***	<b>1166*</b>	***	<b>1951</b>	***	***	***
2 Speed forward Switch	<b>61212</b>	<b>559</b>	<b>1063</b>	<b>1334</b>	<b>1675</b>	<b>2053</b>	<b>5470</b>	<b>6316</b>

\*Supplied only with ball grip handle

## Switches in Enclosure



73393

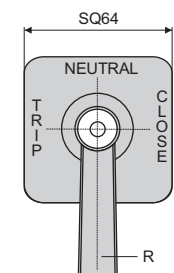


72244

Description	Cat. No.	M.R.P. (₹) Per Unit				
		16A	25A	32A	40A	63A
FOR - OFF - REV in SS	<b>73393</b>	<b>397*</b>	***	***	***	***
FOR - OFF - REV in SS	<b>71913</b>	***	<b>625*</b>	<b>918*</b>	***	***
3 P ON - OFF in SS	<b>72244</b>	***	<b>542</b>	<b>793</b>	***	***
3 P 2W W/OFF in SS	<b>61153</b>	<b>775</b>	***	***	***	***

\*Supplied only with ball grip handle

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



Description	Cat. No.	M.R.P. (₹) Per Unit
		25A
TNC with 1 NO + 1 NC SPR RTN	<b>73257</b>	<b>974</b>
TNC with 2 NO + 2 NC SPR RTN	<b>72009</b>	<b>1147</b>
Barrel Lock (Center Key Lock)	<b>LCKB90S1</b>	<b>408</b>

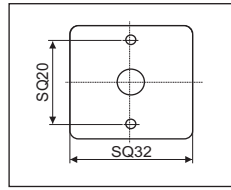
\* Other option such as sequence inter lock (SIL) & lost motion device (IMD) available on request.

\* Note : Accessories prices are to be added with basic switch.

\*\*\* Note : 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>23</b>
Front Plate for 6 to 16A	<b>FP16SQ48</b>	48 x 48	<b>23</b>
Front Plate for 25 & 32A	<b>FP32SQ64</b>	64 x 64	<b>41</b>
Front Plate for 40 to 200A	<b>FP200SQ88</b>	88 x 88	<b>65</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>13</b>
Script Plate for 16 - 32A	<b>SPSQ64</b>	64 x 64	<b>13</b>
Script Plate for 40 - 200A	<b>SPSQ88</b>	88 x 88	<b>18</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>

### Handles



Flag Knob



Ball Grip



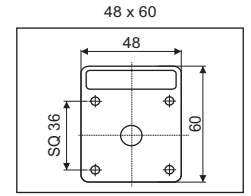
Lever Handle

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>13</b>
Flag Handle for 25 - 32A	<b>KNFHS3</b>	64 x 64, 64 x 80	<b>23</b>
Ball Handle for 16 - 32A	<b>HNBHS1</b>	64 x 64, 64 x 80	<b>65</b>
Ball Handle for 40 - 200A	<b>HNBHS2</b>	88 x 88, 104 x 104	<b>65</b>
PG Handle for 16 - 32A	<b>HNPGS1</b>	64 x 64, 64 x 80	<b>70</b>
Lever Handle for 40 - 200A	<b>HNLVS1</b>	88 x 88, 104 x 104	<b>88</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>473</b>
Aluminium Enclosure B17 16A upto 3 Stage / 25A upto 2 Stage	<b>WMBAL</b>	<b>788</b>
SS Enclosure M17 upto 32A - 4 Stage	<b>WMBSS</b>	<b>292</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>41</b>
SPL IND Plates for 16 - 32A	<b>FPRT6480</b>	64 x 80	<b>70</b>



Tear Drop

### Knobs

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
Tear Drop for 6 - 16A	<b>KNTDS1</b>	48 x 48, 48 x 60	<b>13</b>
Tear Drop for 16 - 32A	<b>KNTDS2</b>	64 x 64, 64 x 80	<b>23</b>
Tear Drop for 40 - 400A	<b>KNTDS3</b>	88 x 88, 104 x 104	<b>47</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>15</b>
Rear MTG Plate for 40 - 63A	<b>MPSQ88</b>	88 x 88	<b>36</b>
Rear MTG Plate for 80 - 400A	<b>MPSQ104</b>	104 x 104	<b>70</b>
DIN Rail Attachment upto 32A	<b>B21DIN35</b>	-	<b>65</b>



B31 PVC Enclosure



## Front Mounting with Lock

B53 Key Operated B63 Key Lockable Switch

Description	Cat. No.	M.R.P. (₹) Per Unit
B53 Lock for 16 - 32A	<b>LCKB53S1</b>	<b>292</b>
B63 Lock for 32A	<b>LCKB63S1</b>	<b>408</b>
B63 Lock for 40 - 63A	<b>LCKB63S2</b>	<b>478</b>
B90 Lock for 16 - 32A	<b>LCKB90S1</b>	<b>408</b>
B90 Lock for 40 - 63A	<b>LCKB90S2</b>	<b>478</b>

## 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>13</b>
Silver Finish 64 x 64 mm	<b>SFSQ64</b>	64 x 64	<b>18</b>
Silver Finish 88 x 88 mm	<b>SFSQ88</b>	88 x 88	<b>23</b>
Silver Finish 104 x 104 mm	<b>SFSQ104</b>	104 x 104	<b>36</b>

## For B13 size (16A onward additional cost)

comes with B13 (4 hole front panel) - fitted with next higher size front plate and the corresponding knob.

Description	Size	M.R.P. (₹) Per Unit
16A - 64 x 64 mm	64 x 64	<b>31</b>
25A - 32A x 88 x 88 mm	88 x 88	<b>47</b>
40A / 200A - 104 x 104 mm	104 x 104	<b>59</b>



Rectangular Padlock

Round Padlock

Note : All rotary switches are supplied with TDYR combination. No extra cost for GB/BB colour.

## Front Mounting with Pad Lock

Description	Cat. No.	Size	M.R.P. (₹) Per Unit
B33 for 16 - 32A	<b>PADB33S1</b>	80 x 80	<b>176</b>
B33 for 40 - 400A	<b>PADB33S2</b>	95 x 95	<b>234</b>
B30 for 16 - 32A	<b>PADB30S1</b>	35 x 102	<b>263</b>
B30 for 40 - 400A	<b>PADB30S2</b>	98 x 126	<b>408</b>

## Accessories



Door Interlock with Standard Mounting

## Rear Mounting with Door Interlock (B42)

Description	Cat. No.	M.R.P. (₹) Per Unit
B42 for 16 - 32A	<b>DILB42S1</b>	<b>263</b>
B42 for 40 - 63A	<b>DILB42S2</b>	<b>379</b>

## Rear Mounting with Door Clutch (B41)

Description	Cat. No.	M.R.P. (₹) Per Unit
B41 for 16 - 32A	<b>DILB41S1</b>	<b>263</b>
B41 for 40 - 63A	<b>DILB41S2</b>	<b>379</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>47</b>
Shrouding Cover for 16A	<b>SHCS2</b>	<b>47</b>
Shrouding Cover for 25 - 32A	<b>SHCS3</b>	<b>77</b>
Shrouding Cover for 40 - 63A	<b>SHCS4</b>	<b>77</b>
Special Cover for Extended Termination 80 - 400A (maximum 2 Contact Stage)	<b>SHCS5</b>	<b>560</b>

## 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	EBXXX31153B13BGYR	1313	1368	1596	1661
3 Pole C/O Rear Mounting	EBXXX31153MB42BGYR	1524	1579	1838	1895
3 Pole C/O in SS Enclosure	EBXXX31153SB31BGYR	1822	1872	2166	2231
3 Pole C/O Rear Mounting	EBXXX31153B21BGYR	1524	1579	1839	1895
3 Pole C/O Rear Mounting	EBXXX31153MB34LHGB	1524	1579	1838	1895
3 Pole C/O in ABS Enclosure	EBXXX31153B31LBGYR	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	EBXXX31154B13BGYR	1524	1579	1872	1927
4 Pole C/O Rear Mounting	EBXXX31154MB42BGYR	1717	1783	2105	2193
4 Pole C/O in SS Enclosure	EBXXX31154SB31BGYR	2032	2111	2448	2536
4 Pole C/O Rear Mounting	EBXXX31154B21BGYR	1717	1783	2105	2193
4 Pole C/O Rear Mounting	EBXXX31154MB34LHGB	1717	1783	2105	2193
4 Pole C/O in ABS Enclosure	EBXXX31154B31LBGYR	2032	2111	2448	2536

### Rating Selection Table



SB31 Enclosure

Ampere (A)	Code (XXX)
25	225
32	232
40	240
63	263

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 (LB Switches)

### 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	LBXXX32300B19FPYR			450	460	*	*	*	*	*	*	*	*	*
Front Plate MTG with Flag Knob	LBXXX32300B40FPYR			438	450	*	*	*	*	*	*	*	*	*
Front Panel MTG with B03 (48x48) Plate	LBXXX32300B03FLYR	32309	TDYR	400	410	444	460	527	566	*	*	*	*	*
Front Panel MTG with B13 (64x64) Plate with Flag Knob	LBXXX32300B13FLYR	32306 / 32309	TDYR	*	*	444	460	527	566	*	*	*	*	*
Front Panel MTG with B13 (64x64) Plate with BG Handle	LBXXX32300B13BGYR	32309		*	*	488	505	571	604	*	*	*	*	*
DIN Rail MTG Switch with Flag Knob	LBXXX32300B23FLGB			*	*	444	460	527	566	*	*	*	*	*
Rectangular Pad Lock Switch with TDYR	LBXXX32300B30TDYR			*	*	538	566	621	654	*	*	*	*	*
Round Pad Lock Switch with RDYR	LBXXX32309B33RDYR			438	450	488	505	571	604	1554	1940	2426		
Switch with B63 Lock & Key Version	LBXXX32309B63TDYR			*	*	743	776	843	865	*	*	*	*	*
Base MTG Switch with DIL and Pad Lock	LBXXX32309MB34RDYR			699	721	776	820	853	920	2071	2586	3234		
Base MTG Switch with BG Handle	LBXXX32309MB42BGYR			699	721	776	820	853	920	*	*	*	*	*
Switch in ABS Enclosure - in B31SM	LBXXX32300B31SMRDYR			887	915	987	1014	*	*	*	*	*	*	*
Switch in ABS Enclosure - in B31M	LBXXX32309B31MRDYR			*	*	*	*	1108	1136	*	*	*	*	*
Switch in SS Enclosure - in B31L with Round Plate	LBXXX32309SB31LRDYR		LHYR	*	*	*	*	*	*	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	LBXXX32400B19FPYR			560	571	*	*	*	*	*	*	*	*	*
Front Plate MTG with Flag Knob	LBXXX32400B40FPYR			549	560	*	*	*	*	*	*	*	*	*
Front Panel MTG with B03 (48x48) Plate	LBXXX32400B03FLYR	32409	TDYR	510	522	567	582	682	721	*	*	*	*	*
Front Panel MTG with B13 (64x64) Plate with Flag Knob	LBXXX32400B13FLYR	32406 / 32409	TDYR	*	*	567	582	682	721	*	*	*	*	*
Front Panel MTG with B13 (64x64) Plate with BG Handle	LBXXX32400B13BGYR	32409		*	*	610	627	726	759	*	*	*	*	*
DIN Rail MTG Switch with Flag Knob	LBXXX32400B23FLGB			*	*	567	582	682	721	*	*	*	*	*
Rectangular Pad Lock Switch with TDYR	LBXXX32400B30TDYR			*	*	659	688	776	809	*	*	*	*	*
Round Pad Lock Switch with RDYR	LBXXX32409B33RDYR			549	560	610	627	726	759	*	*	*	*	*
Switch with B63 Lock & Key Version	LBXXX32409B63TDYR			*	*	865	898	997	1020	*	*	*	*	*
Base MTG Switch with DIL and Pad Lock	LBXXX32409MB34RDYR			809	831	898	942	1009	1075	2398	2996	3743		
Base MTG Switch with BG Handle	LBXXX32409MB42BGYR			809	831	898	942	*	*	*	*	*	*	*
Switch in ABS Enclosure - in B31SM	LBXXX32400B31SMRDYR			997	1025	1108	1136	*	*	*	*	*	*	*
Switch in ABS Enclosure - in B31M	LBXXX32409B31MRDYR			*	*	*	*	1263	1291	*	*	*	*	*
Switch in SS Enclosure - in B31L with Round Plate	LBXXX32409SB31LRDYR		LHYR	*	*	*	*	*	*	3246	3848	4591		

### Rating Selection Table

Ampere (A)	Code (XXX)
16	116
20	120
25	225
32	232
40	240
63	263
80	080
100	100
125	125

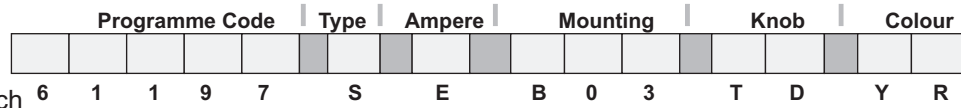
\*\*\* Note : Please contact nearest L&T branch office.

## Ordering Code for Rotary Switches

Example for :

25A 3 Pole

ON - OFF Switch



### Programme Code

Programme	Programme Code
Isolators	Pg 1
Changeover Switches	Pg 1
Spring Return Switches	Pg 2
Multistep Switches with OFF	Pg 3
Multistep Switches without OFF	Pg 4
Instrument Switches	Pg 5, 6
Motor Duty Switches	Pg 6
Switches in SS Enclosure	Pg 6
Breaker Control Switches	Pg 6

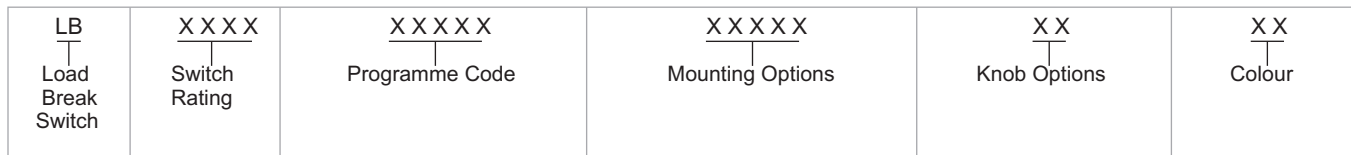
### Type Selection

Type	Code	Upto Current
S-Series	S	6 to 400A
Touch Proof	T	6 to 16A
Rear Access Termination	R	16 to 63A
Phase Selector Only for 1 Pole 3 Way with OFF	P	25 to 63A

### Ampere Selection

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

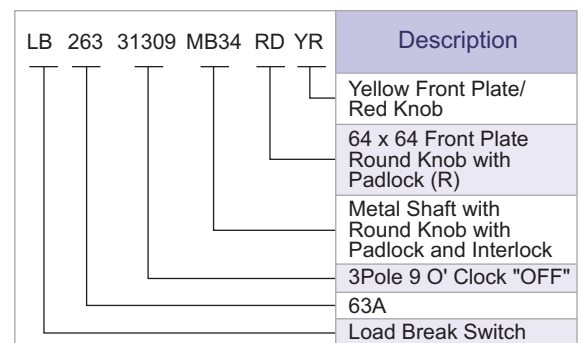
## Ordering Code for Load Break and Changeover Switches



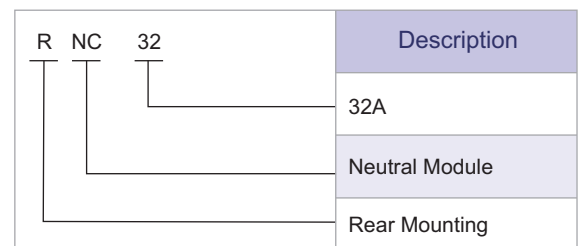
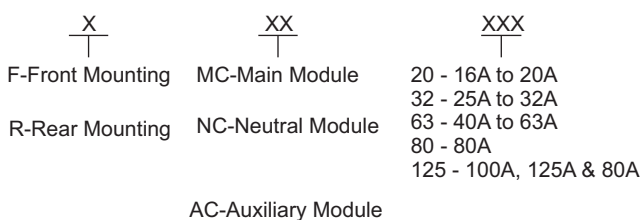
### Example

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

LB 263 31309 MB34 RD YR



### Accessories

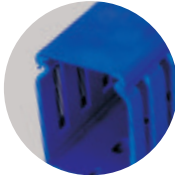
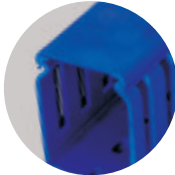


Product improvement is continuous process. Hence, data given in this catalogue is subject to change without intimation. Please a certain Product Certification and Listing.

# Cable Ducts

## PVC Cable Ducts


Type A	Description	Cat. No.	M.R.P. (₹) Per Unit
  <p>A Type * Snap fit cover * Easy to remove</p>	A 15 x 15 (H x W) 1m std Slot std Grey	WWA1515SG	36
	A 15 x 25 (H x W) 1m std Slot std Grey	WWA1525SG	53
	A 25 x 25 (H x W) 1m std Slot std Grey	WWA2525SG	63
	A 30 x 25 (H x W) 1m std Slot std Grey	WWA3025SG	71
	A 40 x 30 (H x W) 1m std Slot std Grey	WWA4030SG	87
	A 45 x 25 (H x W) 1m std Slot std Grey	WWA4525SG	93
	A 45 x 30 (H x W) 1m std Slot std Grey	WWA4530SG	95
	A 45 x 45 (H x W) 1m std Slot std Grey	WWA4545SG	112
	A 45 x 60 (H x W) 1m std Slot std Grey	WWA4560SG	136
	A 60 x 25 (H x W) 1m std Slot std Grey	WWA6025SG	112
	A 60 x 45 (H x W) 1m std Slot std Grey	WWA6045SG	134
	A 60 x 60 (H x W) 1m std Slot std Grey	WWA6060SG	157
	A 60 x 120 (H x W) 1m std Slot std Grey	WWA60120SG	557
	A 75 x 45 (H x W) 1m std Slot std Grey	WWA7545SG	167
	A 75 x 75 (H x W) 1m std Slot std Grey	WWA7575SG	241
	A 80 x 80 (H x W) 1m std Slot std Grey	WWA8080SG	276
	A 100 x 100 (H x W) 1m std Slot std Grey	WWA100100SG	444

Type B	Description	Cat. No.	M.R.P. (₹) Per Unit
  <p>B Type * Non - slip cover * Positive locking</p>	B 25 x 30 (W x H) 1m std Slot std Grey	WWB2530SG	68
	B 25 x 40 (W x H) 1m std Slot std Grey	WWB2540SG	83
	B 25 x 60 (W x H) 1m std Slot std Grey	WWB2560SG	109
	B 25 x 80 (W x H) 1m std Slot std Grey	WWB2580SG	149
	B 25 x 100 (W x H) 1m std Slot std Grey	WWB25100SG	208
	B 30 x 20 (W x H) 1m Unslot std Grey	WWB3020SG	88
	B 40 x 40 (W x H) 1m std Slot std Grey	WWB4040SG	109
	B 40 x 60 (W x H) 1m std Slot std Grey	WWB4060SG	133
	B 40 x 80 (W x H) 1m std Slot std Grey	WWB4080SG	165
	B 40 x 100 (W x H) 1m std Slot std Grey	WWB40100SG	218
	B 45 x 20 (W x H) 1m Unslot std Grey	WWB4520SG	93
	B 50 x 100 (W x H) 1m std Slot std Grey	WWB50100SG	244
	B 60 x 20 (W x H) 1m Unslot std Grey	WWB6020SG	128
	B 60 x 40 (W x H) 1m std Slot std Grey	WWB6040SG	138
	B 60 x 60 (W x H) 1m std Slot std Grey	WWB6060SG	160
	B 60 x 80 (W x H) 1m std Slot std Grey	WWB6080SG	216
	B 60 x 100 (W x H) 1m std Slot std Grey	WWB60100SG	283
	B 72 x 64 (W x H) 1m std Slot std Grey	WWB7264SG	202
	B 75 x 100 (W x H) 1m std Slot std Grey	WWB75100SG	297
	B 80 x 40 (W x H) 1m std Slot std Grey	WWB8040SG	170
	B 80 x 60 (W x H) 1m std Slot std Grey	WWB8060SG	213
	B 80 x 80 (W x H) 1m std Slot std Grey	WWB8080SG	266
	B 80 x 100 (W x H) 1m std Slot std Grey	WWB80100SG	327
	B 100 x 60 (W x H) 1m std Slot std Grey	WWB10060SG	261
	B 100 x 80 (W x H) 1m std Slot std Grey	WWB10080SG	319
	B 100 x 100 (W x H) 1m std Slot std Grey	WWB100100SG	440
	B 150 x 100 (W x H) 1m std Slot std Grey	WWB150100SG	520
	B 75 x 75 (W x H) 1m std Slot std Grey	WWB7575SG	286
B 120 x 80 (W x H) 1m std Slot std Grey	WWB12080SG	435	

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.

## Cable Duct Covers


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


These products are manufactured by 





# 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		<b>12ODT4</b>	<b>775</b>
			110 VAC/24 VAC/DC			<b>11ODT4</b>	<b>850</b>
			12 VDC			<b>15ODT4</b>	<b>695</b>
	Star Delta Timer	3 sec - 120 sec	240 VAC	1 NO (Star)+1 NO (Delta)		<b>12SDT0</b>	<b>845</b>
			240 - 415 VAC	1 C/O (Star)+1 C/O (Delta)		<b>14SDT1S</b>	<b>895</b>
	Multifunction Timer (10 functions)	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O		<b>1CMDT0</b>	<b>1080</b>
	Asymmetrical ON/OFF & OFF/ON	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O		<b>1CJDT0</b>	<b>1080</b>
	One Shot	0.3 sec - 30 hrs	110 VAC/24 VAC/DC	1 C/O		<b>11BDT4</b>	<b>795</b>
			240 VAC/24 VAC/DC			<b>12BDT4</b>	<b>795</b>
			12 VDC			<b>15BDT4</b>	<b>850</b>


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		<b>2AODT5</b>	<b>1020</b>
			9 - 32 VDC			<b>29ODT5</b>	<b>1035</b>
	Star Delta Timer	3 sec - 120 sec	24 - 240 VAC/DC	1 NO (Star)+1 NO (Delta)		<b>2ASDT0</b>	<b>1075</b>
			240/415 VAC			<b>2BSDT0</b>	<b>1205</b>
	Multifunction Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O		<b>2A5DT5</b>	<b>1120</b>
			240 - 415 VAC			<b>2B5DT5</b>	<b>1305</b>
	Signal Base Multi function - Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	1 C/O		<b>2ANDT0</b>	<b>1150</b>
	Multifunction Timer 6 Functions	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed for 6th Mode)		<b>2A6DT6</b>	<b>1160</b>
			240 - 415 VAC			<b>2B6DT6</b>	<b>1185</b>
	True OFF Delay	0.6 sec - 600 sec	24 - 240 VAC/DC	2 C/O		<b>23GDT0</b>	<b>1700</b>
Asymmetrical ON/OFF	0.1 sec - 10 hrs	24 - 240 VAC/DC, 2 C/O	2 C/O		<b>2AADT5</b>	<b>1225</b>	
		12 VDC, 2 C/O			<b>25ADT5</b>	<b>960</b>	


Digital Timer DIGICON	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>1180</b>
			24 - 240 VAC/DC	2 NO		<b>V0DDTD</b>	<b>1180</b>
	17 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O		<b>V0DDTS1</b>	<b>1340</b>
			24 - 240 VAC/DC	2 NO		<b>V0DDTD1</b>	<b>1340</b>



<b>Brown out Timer</b> 	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	ON Delay 0.3 - 30 s	110 VAC	1 C/O	<b>13UDT0</b>	<b>925</b>
	Interval 0.3 - 30 s	110 VAC		<b>13UDT1</b>	<b>925</b>
	ON Delayed 0.3 - 30 s	220 VAC		<b>17UDT0</b>	<b>925</b>
	Interval 0.3 - 30 s	220 VAC		<b>17UDT1</b>	<b>925</b>
	3 Functions 0.3 - 30 s	110 VAC		<b>23UDT0</b>	<b>1030</b>
	3 Functions 0.3 - 30 s	240 VAC		<b>27UDT0</b>	<b>1030</b>

<b>Motor Restart Timer</b> 	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	Max 6 sec, Delay time: 0.2 to 60 s	110 VAC	1 C/O	<b>23LDT0</b>	<b>1225</b>
		240 VAC		<b>22LDT0</b>	<b>1225</b>

## Time Switches

<b>FM1 / Quartz</b> 	Product Description	Cat. No.	M.R.P. (₹) Per Unit
	FM1 / Quartz Daily 240 VAC Base/DIN Mounting	<b>J648B1</b>	<b>2230</b>
	FM1 / Quartz Daily 110 VAC Base/DIN Mounting	<b>J638B1</b>	<b>2580</b>
	FM1 / Quartz Daily 240 VAC Flush Mounting	<b>J648F1</b>	<b>2395</b>
	FM1 / Quartz Daily 110 VAC Flush Mounting	<b>J638F1</b>	<b>2500</b>
	FM1 / Quartz Weekly 240 VAC Base/DIN Mounting	<b>J848B1</b>	<b>2580</b>
	FM1 / Quartz Weekly 110 VAC Base/DIN Mounting	<b>J838B1</b>	<b>2580</b>
	FM1 / Quartz Weekly 240 VAC Flush Mounting	<b>J848F1</b>	<b>2495</b>
	FM1 / Quartz Weekly 110 VAC Flush Mounting	<b>J838F1</b>	<b>2495</b>
	Digital Time Switch FM1 / Digi 20 Plus, 240 VAC, Base/DIN Mounting	<b>D847B2</b>	<b>4215</b>
	Digital Time Switch FM1 / Digi 20 Plus, 240 VAC, Flush Mounting	<b>D847F2</b>	<b>4105</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>1875</b>
	Time Switch (Crono) 24 VDC 1 C/O Base/DIN 25 ON/OFF	<b>6GHDT0</b>	<b>2060</b>
	Time Switch (Crono) 12 VDC 1 C/O Base/DIN 25 ON/OFF	<b>69HDT0</b>	<b>2165</b>
	Time Switch (Pulse) 110 - 240 VAC 1 C/O Base/DIN 16 Pulse	<b>67DDT9</b>	<b>1825</b>

<b>ASTRO</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>3150</b>
		Time Switch (Astro) 110 - 240 VAC 1 Phase - 2W 2 Channel, Base/DIN	<b>T2DDT0</b>	<b>6810</b>
		Time Switch (Astro) 110 - 240 VAC 3 Phase - 4W 3 Channel, Base/DIN	<b>T3DDT0</b>	<b>8035</b>
	<b>Accessories</b>	Software on PC for Astro	<b>TGDDT6</b>	<b>610</b>
		USB Interface Cable	<b>GFDNN1</b>	<b>885</b>
		Memory Card for Astro	<b>GFDNN3M</b>	<b>470</b>
<b>3 Phase Astro Accessories</b>		Surge Suppressor	<b>19D2000C</b>	<b>760</b>
		Astro GSM Module (GSM - ERT5), Remote Side	<b>19D20B00</b>	<b>18140</b>
		Astro GSM Module (GSM - RT), PC Side	<b>19C20C00</b>	<b>16120</b>
		Communication Cable (TTL - TTL) between Astro & GSM Module	<b>19A1000B</b>	<b>470</b>


Astro Mini


## Supply Monitoring Devices


<b>Voltage Monitoring Relay Series</b>		Type	Supply Monitoring Type	Time delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit				
	SM301	Single Phasing Preventor (SPP*)		ON Delay 2 sec and OFF Delay 7 sec	65 VAC Asymmetry	415 VAC, 3 Ph 3W 1 C/O	<b>MA51BC</b>	<b>750</b>				
						415 VAC, 2 C/O	<b>MC21B5</b>	<b>1085</b>				
	SM500	Under Voltage + Over Voltage		Selectable ON Delay (0 to 15 min)	-	240 VAC, 3 Ph / 1 Ph, 4W, 1 C/O	<b>MD71B9</b>	<b>1085</b>				
				Selectable ON Delay (0 to 15 sec)	-		<b>MD71BH</b>	<b>1085</b>				
				Selectable OFF Delay (0 to 15 sec)	-		<b>MD71BF</b>	<b>1275</b>				
	SM501	Single Phasing Preventor + Under Voltage + Over Voltage		Selectable ON Delay (0 to 15 min)	Phase Asymmetry 10% fixed	240 VAC, 3 Ph / 1 Ph, 4W, 2 C/O	<b>MG73B9</b>	<b>1340</b>				
				Selectable ON Delay (0 to 15 sec)	Phase Asymmetry 10% fixed		<b>MG73BH</b>	<b>1340</b>				
				Selectable OFF Delay (0 to 15 sec)	Phase Asymmetry 10% fixed		<b>MG73BF</b>	<b>1340</b>				
	SM501	SPP + UV + OV with Neutral Loss Protection		ON Delay 5 sec and OFF Delay 5 sec	94 VAC Asymmetry	415 VAC, 3 Ph 4W, 2 C/O	<b>MAC04 D0100</b>	<b>1340</b>				
							SPP + Under Voltage	Selectable ON Delay and OFF Delay (0.5 to 15 sec)	Selectable Asymmetry (5% to 17%)	<b>MB53BM</b>	<b>1340</b>	
							Single Phasing Preventor + Under Voltage + Over Voltage	Selectable ON Delay (0.5 to 15 sec)	-	415 VAC, 3 Ph 3W, 2 C/O	<b>MG53BH</b>	<b>1340</b>
								Selectable OFF Delay (0.5 to 15 sec)	-		<b>MG53BF</b>	<b>1340</b>
								-	-		<b>MG53BI</b>	<b>1250</b>
								ON Delay 3 min and OFF Delay 5 sec	94 VAC Asymmetry		<b>MG53BO</b>	<b>1250</b>
								Selectable ON Delay (0.5 to 15 sec)	-		220 VAC, 3 Ph 3W, 2 C/O	<b>MG63BH</b>
Selectable OFF Delay (0.5 to 15 sec)	-	<b>MG63BF</b>	<b>1275</b>									

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


\* SPP includes single phasing, phase sequence and phase unbalance monitoring with auto reset.


Voltage Monitoring Relay Series 	Type	Supply Monitoring Type	Time Delay	Assymetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
	SM175	Phase Sequence Monitoring	-	-	Phase Asymmetry Monitoring (30% fixed)	208 - 480 VAC, 3 Ph 3W, 1 C/O	<b>MK21D5</b>	<b>845</b>
		Phase loss + Phase Sequence Monitoring	-	Phase Asymmetry Monitoring (5% to 15% variable)			<b>MC21D5</b>	<b>845</b>
			Under Voltage + Over Voltage + Phase Sequence + Phase Loss monitoring		ON Delay 5 s and Selectable OFF Delay (0 to 15 sec)		-	<b>MA21DN</b>
		Under Voltage + Over Voltage + SPP	Selectable ON Delay (0.5 to 15 sec) and OFF Delay 5 s	Phase Asymmetry 10% fixed	<b>MD21DF</b>		<b>1095</b>	
			ON Delay 5 s and Selectable OFF Delay (0 to 15 ses)		<b>MG21DH</b>		<b>1225</b>	
<b>MG21DF</b>	<b>1225</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>1560</b>
			220 - 440 VAC, 1 C/O	<b>MI91BJ</b>	<b>1560</b>
	Under/Over Frequency Monitoring Relay	ON Delay (Fixed) and OFF Delay Selectable	110 - 240 VAC, 1 C/O	<b>MI81BL</b>	<b>1695</b>
220 - 440 VAC, 1 C/O			<b>MI91BL</b>	<b>1695</b>	


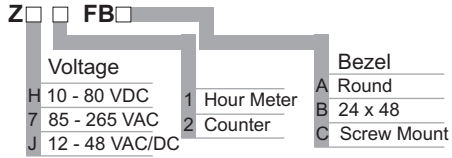
Earth Leakage Relays 	Current Range	Type	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	30mA - 30A	Earth Leakage Relay	110 - 240 VAC, Manual Reset	<b>17G715GF2</b>	<b>2800</b>
			220 - 415 VAC, Manual Reset	<b>17G745GF2</b>	<b>2800</b>
			110 - 240 VAC, Auto Reset	<b>17G715KF2</b>	<b>2800</b>
			220 - 415 VAC, Auto Reset	<b>17G745KF2</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>	
	60mA - 300mA	Earth Leakage Relay	110 - 240 VAC, 1 C/O	<b>17G514FF1</b>	<b>1965</b>
			220 - 415 VAC, 1 C/O	<b>17G544FF1</b>	<b>1965</b>
		CBCT (tape wound)	35 mm	<b>17H5NNHL3</b>	<b>1020</b>
			65 mm	<b>17H5NNIL3</b>	<b>1440</b>
			100 mm	<b>17H5NNJL3</b>	<b>1585</b>
0.2A - 1.2A	Earth Leakage Relay	110 - 240 VAC, 1 C/O	<b>17G614FF1</b>	<b>1965</b>	
		220 - 415 VAC, 1 C/O	<b>17G644FF1</b>	<b>1965</b>	
	CBCT (tape wound)	35 mm	<b>17H6NNHL3</b>	<b>1020</b>	
		65 mm	<b>17H6NNIL3</b>	<b>1440</b>	
		100 mm	<b>17H6NNJL3</b>	<b>1585</b>	

\* Note: For higher dimension of CBCT please contact nearest branch office.

<b>Current Monitoring Series</b> 	Phase	Type	Current & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	3 Phase	Inverse Time Current Monitoring Relay	3 - 9A, 1 NO	<b>17A122CB0</b>	<b>1500</b>
			8 - 24A, 1 NO	<b>17A222CB0</b>	<b>1500</b>
			15 - 45A, 1 NO	<b>17A322CB0</b>	<b>1500</b>
		Definite Time Current Monitoring Relay	3 - 9A, 1 NO	<b>17B122AA0</b>	<b>1500</b>
			8 - 24A, 1 NO	<b>17B222AA0</b>	<b>1500</b>
			15 - 45A, 1 NO	<b>17B322AA0</b>	<b>1500</b>
	1 Phase	Inverse Time Current Monitoring Relay	3 - 9A, 1 NO	<b>17C112EB0</b>	<b>1470</b>
			8 - 24A, 1 NO	<b>17C212EB0</b>	<b>1470</b>
			15 - 45A, 1 NO	<b>17C312EB0</b>	<b>1470</b>
Definite Time Current Monitoring Relay		3 - 9A, 1 NO	<b>17D112DA0</b>	<b>1470</b>	
		8 - 24A, 1 NO	<b>17D212DA0</b>	<b>1470</b>	
		15 - 45A, 1 NO	<b>17D312DA0</b>	<b>1470</b>	

<b>PTC Thermistor Relay Series</b> 	Relay Type	Description	Cat. No.	M.R.P. (₹) Per Unit
	Thermistor Relay	110 - 240 VAC, 1 C/O	<b>MJ81BK</b>	<b>1230</b>
		220 - 440 VAC, 1 C/O	<b>MJ91BK</b>	<b>1245</b>
		24 VAC/DC, 2 C/O	<b>MJA3BK</b>	<b>1560</b>
		110 - 240 VAC, 2 C/O	<b>MJ83BK</b>	<b>1335</b>
		220 - 440 VAC, 2 C/O	<b>MJ93BK</b>	<b>1350</b>
	Thermistor Relay + Single Phasing Preventor	230 VAC, 1 NO + 1 NO	<b>ML64BS</b>	<b>1440</b>
		230 VAC, 1 NO + 1 NC	<b>ML67BS</b>	<b>1440</b>
		400 VAC, 1 NO + 1 NO	<b>MLD4BS</b>	<b>1440</b>
		400 VAC, 1 NO + 1 NC	<b>MLD7BS</b>	<b>1440</b>

## Hour Meter & Counter

<b>Hour Meters</b> 	Product Description	Cat. No.	M.R.P. (₹) Per Unit
	HM - 36 85 - 265 VAC Flush Mounting	<b>LA25F1</b>	<b>565</b>
	HM - 36 10 - 80 VDC Flush Mounting	<b>LD17F1</b>	<b>860</b>
	HM - 36 92 - 264 / 270 - 460 VAC Base - DIN Mounting	<b>30A6B1</b>	<b>620</b>
	HM - 36 10 - 80 VDC Base/DIN Mounting	<b>30D1B1</b>	<b>860</b>
	Digital Hour Meter/Digital Counter (Resetable)	<b>Z□□FB□</b>	<b>1045</b>
<b>Hour Meter / Counter</b> 	<b>Z□□FB□</b> Voltage H 10 - 80 VDC 7 85 - 265 VAC J 12 - 48 VAC/DC	Bezel A Round B 24 x 48 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
	<b>EM 1000</b> Timing Ranges(SR) 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 Timing Ranges(MR) X 0.15 sec - 3.0 hrs Y 0.3 sec - 6.0 hrs Z 0.6 sec - 12.0 hrs Voltage 3 110 VAC 50 Hz 4 240 VAC 50 Hz C 110 VAC 60 Hz D 240 VAC 60 Hz	Delay 1 Standard ON delay 2 With 'NO VOLT' Mounting B Base Mounting F Flush (door) Mtg. Contact 1 1 Inst + 1 Del C/O 2 1 Inst + 2 Del C/O	*185 *170
*Add to basic Price. Contact : 240 VAC 6A (Resistive)			

Table - 1

Single Range (SR) (In sec/min/hrs)	M.R.P. (₹) Per Unit for range in sec	M.R.P. (₹) Per Unit for range in min	M.R.P. (₹) Per Unit for range in hrs	Multi Range (MR) with 5 Ranges	M.R.P. (₹) Per Unit
0.15 - 3	2445	2645	2935	0.15 sec - 3 hrs	3325
0.3 - 6	2445	2645	2935	0.3 sec - 6 hrs	3325
0.6 - 12	2445	2645	2935	0.6 sec - 12 hrs	3325
1.5 - 30	2445	2645	3125		
3.0 - 60	2445	2645	3125		
6.0 - 120	2445	2645	3125		

EM 2000	Product Description	Cat. No.	M.R.P. (₹) Per Unit
	EM 2000 On Delay Type Contact	C□□□B1	1470
	<b>EM 2000</b> Timing Ranges C 1.0 - 30 sec J 2.0 - 60 sec Q 4.0 - 120 sec Voltage 3 110 VAC 50 Hz 4 240 VAC 50 Hz 5 415 VAC 50 Hz	Contact 5 1 Del C/O 6 2 Del C/O	*195 *185
* Add to basic Price.			

These products are manufactured by


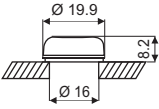

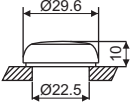


# Modular Remote Control Units

## Gen Next Series


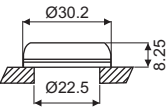

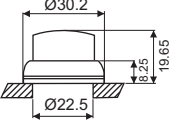

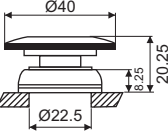
### Gen Next LED Indicator

- Surface Mounted Device LED technology
- Low Power consumption < 0.6W
- LVGP & Surge protection

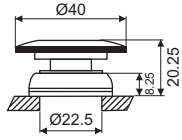

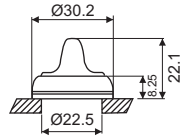





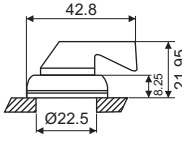




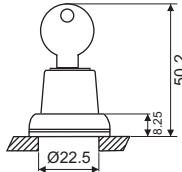


	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
 	Gen Next LED Indicator 16 mm	SIL□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	012C - 12 VAC/DC	96
				024C - 24 VAC/DC	
 	Gen Next LED Indicator 22.5 mm	EIL□□□□□	R-Red G-Green Y-Yellow A-Amber B-Blue W-White	048C - 48 VAC/DC	104
				064C - 64 VAC/DC	
				110A - 110 VAC	177
				110D - 110 VDC	
				240A - 240 VAC	130
				220D - 220 VDC	
				415A - 415 VAC	218
					Blue & White

### 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	52
 	Projecting Head 'Push Function'	EMN□PD1	R-Red G-Green C-Black Y-Yellow W-White B-Blue A-Amber F-Gray	52
 	Mushroom Head 'Push - Turn Function'	EMN□MH1	R-Red G-Green C-Black Y-Yellow	104

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

	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
 	Mushroom Head 'Push - Function'	<b>EMN□MD1</b>	R-Red G-Green C-Black Y-Yellow	<b>76</b>
 	Symmetric Head	<b>2 Position</b>  Non Spring Return <b>EMN□SK1</b>	R-Red G-Green C-Black W-White	<b>148</b>
		 Spring Return <b>EMN□SI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□SL1</b>		<b>156</b>
		 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	<b>148</b>
		 Spring Return <b>EMN□LI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□LL1</b>		<b>156</b>
		 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	<b>213</b>
		 Spring Return <b>EMN□KI1</b>		
		<b>3 Position</b>  Non Spring Return <b>EMN□KL1</b>		<b>222</b>
		 Spring Return <b>EMN□KJ1</b>		
		 Spring Return L. H. <b>EMN□KM1</b>		
		 Spring Return R. H. <b>EMN□KN1</b>		

- Note :**
- Actuators & Selector Actuators with black ABS collar are offered as Standard
  - 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**
  - 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


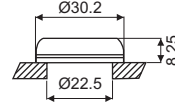

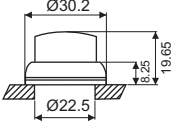

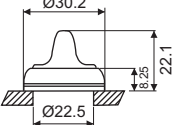
Note \* - In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style , replace 6th digit from K to T










## 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	150
			B-Blue W-White	110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	278 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	150
			B-Blue W-White	110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	278 Blue and White
 	Selector Actuator with LED holder	<b>2 Position</b> Non Spring Return EG03SKL□□□□□	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	219
		Spring Return EG03SIL□□□□□			
		<b>3 Position</b> Non Spring Return EG03SLL□□□□□			
		Spring Return EG03SJL□□□□□			

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 (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
	'NO' Block	EC1C	-	-	41
	'NC' Block	EC2C	-	-	41
	LED Holder for Gen Next series	EG08HOL□□□□□	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	97
			B-Blue W-White	110A - 110 VAC 110D - 110 VDC 240A - 240 VAC 220D - 220 VDC	218 Blue and White

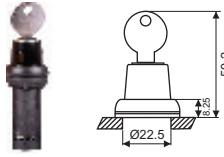






Note : Gen Next Modular Contact Blocks (EC1C and EC2C) can be used only with Gen Next Push Button Actuator



## Gen Next Integral Actuator

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

	Description	Cat. No.	Contact Configuration (3rd 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	82		
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	W-White B-Blue A-Amber C-Black	121		
 	Projecting Head Push Function	EE□□PD1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	82		
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	W-White B-Blue A-Amber C-Black	121		
 	Mushroom Head Push - Turn	EE□□MH1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	122		
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	C-Black	167		
 	Mushroom Head Push - Function	EE□□MD1	1 - 1 NO 2 - 1 NC	R-Red G-Green Y-Yellow	103		
			3 - 1 NO + 1 NC 4 - 2 NO 5 - 2 NC	C-Black	141		
 	Symmetric Head Actuator	<b>2 Position</b>		R-Red G-Green W-White C-Black	170		
		 Non Spring Return EE□□SK1	1 - 1 NO 2 - 1 NC			3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)	208
		 Spring Return EE□□SI1					
		<b>3 Position</b>				3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)	214
		 Non Spring Return EE□□SL1					
		 Spring Return EE□□SJ1					
 Spring Return L. H. EE□□SM1							
 Spring Return R. H. EE□□SN1							
 	Lever Head	<b>2 Position</b>		R-Red G-Green W-White C-Black	170		
		 Non Spring Return EE□□LK1	1 - 1 NO 2 - 1 NC			3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)	208
		 Spring Return EE□□LI1					
		<b>3 Position</b>				3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)	214
		 Non Spring Return EE□□LL1					
		 Spring Return EE□□LJ1					
		 Spring Return L. H. EE□□LM1					
 Spring Return R. H. EE□□LN1							

## Gen Next Integral Actuator


	Description	Cat. No.	Contact Configuration (3rd 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>216</b>
		 Non Spring Return <b>EE□□KK1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)			
		 Spring Return <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>3 Position</b>				
		 Non Spring Return <b>EE□□KL1</b>	3 - 1 NO + 1 NC (Left NO) 4 - 2 NO 5 - 2 NC 6 - 1 NO + 1 NC (Right NO)			
		 Spring Return <b>EE□□KJ1</b>				
	 Spring Return L. H. <b>EE□□KM1</b>					
 Spring Return R. H. <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





















	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>192</b>	
	110 VAC	EG15R00C110A	EG15S00C110A	<b>192</b>	
	64 VAC/DC	EG15R00C064C	EG15S00C064C	<b>192</b>	
	48 VAC/DC	EG15R00C048C	EG15S00C048C	<b>192</b>	
	30 VAC/DC	EG15R00C030C	EG15S00C030C	<b>192</b>	
	24 VAC/DC	EG15R00C024C	EG15S00C024C	<b>192</b>	
	12 VAC/DC	EG15R00C012C	EG15S00C012C	<b>192</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>299</b>
Flush Head Actuator - Green with Legend - START Contact - 1 'NO'	<b>EP1FAB02</b>	<b>299</b>	
	Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON Contact - 1 'NO'	<b>EP1FAF08</b>	<b>394</b>
	Two Position Lock & Key Rotary Switch with Legend - OFF / ON Contact - 1 'NO'	<b>EP1FAF12</b>	<b>435</b>
	Mushroom Head Actuator 'Push Function' with Legend - STOP Contact - 1 'NC' for Stop	<b>EP1FAC03</b>	<b>318</b>

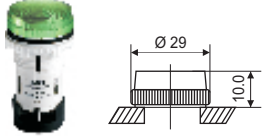
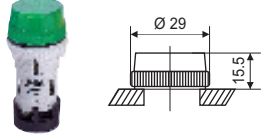
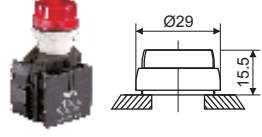
## Gen Next Push Button Stations

	Description	Cat. No.	M.R.P. (₹) Per Unit
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' for Stop	<b>EP1FAC05</b>	<b>388</b>
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	<b>EP2FAH0201</b>	<b>435</b>
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC'		
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)	<b>EP2FAH0205</b>	<b>480</b>
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' (Station Two)		
	LED Indicator 240 VAC - Red (Station One)	<b>EP3FAUI1X0201</b>	<b>585</b>
	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)	<b>EP3FAR020102</b>	<b>549</b>
	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)	<b>EP3FAS020102</b>	<b>549</b>
	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	<b>EP8F02</b>	<b>1559</b>
	8 Way push button pendant with hanging provision	<b>EP8F04</b>	<b>1667</b>
	Single Station Enclosure Box without Actuator	<b>EP1FAA</b>	<b>166</b>
	Two Station Enclosure Box without Actuator	<b>EP2FAA</b>	<b>176</b>
	Three Station Enclosure Box without Actuator	<b>EP3FAA</b>	<b>181</b>
	Eight Station Enclosure Box without Actuator	<b>EP8FAA</b>	<b>304</b>

- 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.

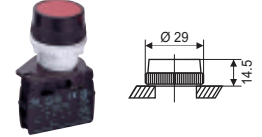
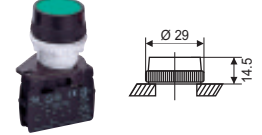
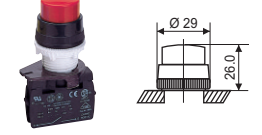

## Standard Series

### Standard Indicators

	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	Voltage (5 <sup>th</sup> & 6 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	LED Indicator	<b>TT0□□□</b>	1-Red 2-Green 4-Yellow 5-White/Opal 6-Blue 7-Orange	X1 - 240 VAC X2 - 220 VDC W1 - 110 VAC W2 - 110 VDC Q1 - 63.5 VAC/DC V1 - 48 VAC/DC U1 - 24 VAC/DC T1 - 12 VAC/DC S1 - 6 VAC/DC	<b>129</b> <b>341</b> <b>Blue</b> <b>437</b> <b>White</b>
	Compact Integral Indicator with Resistor & Diode	<b>TM0□X1</b>	1-Red 2-Green 4-Yellow 5-White/Opal 6-Blue 7-Orange 8-Colorless	X1 - 240 VAC	<b>83</b>
	Universal Voltage LED Indicator	<b>TP0□Z1</b> <b>TP0□Z2</b>	1-Red 2-Green 4-Yellow 5-White 6-Blue 7-Orange	Z1 - 40V to 240 VAC/DC Z2 - 24V to 240 VAC/DC	<b>236</b> <b>282</b> <b>Blue</b> <b>369</b> <b>White</b>

### TEEKAY Series

- Pre assembled actuators with 1 NO (HC61A2) or 1 NC (HC61B2) contact blocks with single row clip

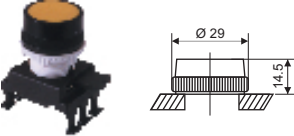
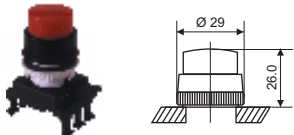
	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Flush head Push Button with 1 NC Block	<b>TD1□AB2</b>	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>95</b>
	Flush head Push Button with 1 NO Block	<b>TD1□AA2</b>	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>95</b>
	Projecting head Push Button with 1 NC Block	<b>TD4□AB2</b>	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>95</b>
	Projecting head Push Button with 1 NO Block	<b>TD4□AA2</b>	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>95</b>

## TEEKAY Series

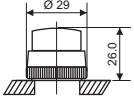


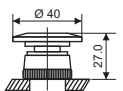

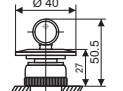

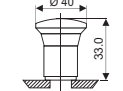

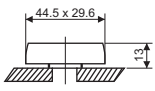

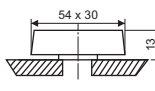

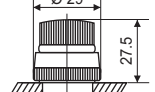





	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
	Symmetrical head 2 position selector switch (NSR) with 1 NC Block	<b>TK63AB2</b>	3-Black	<b>198</b>
	Symmetrical head 2 position selector switch (NSR) with 1 NO Block	<b>TK63AA2</b>	3-Black	<b>198</b>
	Symmetrical head 2 position selector switch (SR) with 1 NC Block	<b>T163AB2</b>	3-Black	<b>198</b>
	Symmetrical head 2 position selector switch (SR) with 1 NO Block	<b>T163AA2</b>	3-Black	<b>198</b>
	Mushroom Head Push Turn Actuator with 1 NC	<b>TH5□AB2</b>	1-Red 2-Green 3-Black 4-Yellow	<b>141</b>
	Mushroom Head Push Turn Actuator with 1 NO	<b>TH5□AA2</b>		
	Mushroom Head Push Function Actuator with 1 NC	<b>TD5□AB2</b>	1-Red 2-Green 3-Black 4-Yellow	<b>123</b>
	Mushroom Head Push Function Actuator with 1 NO	<b>TD5□AA2</b>		

## Standard Push Button & Selector Actuators Ø 22.5 mm

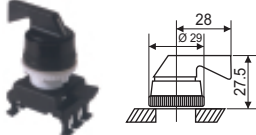






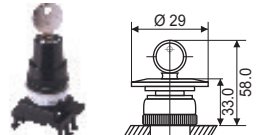






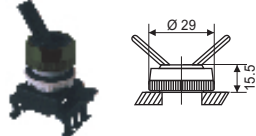

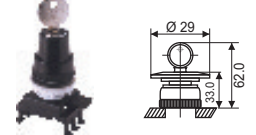

- Contact blocks HC61A2 & HC61B2



	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>63</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>63</b>

## Standard Push Button & Selector Actuators Ø 22.5 mm

	Description	Cat. No.	Colour (6 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit
 	Projecting Head 'Push - Push Function'	<b>HF45C</b> □	1-Red 2-Green 3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange	<b>141</b>
 	Mushroom Head Ø 40 mm 'Push Function'	<b>HD55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>88</b>
 	Mushroom Head 'Push Turn'	<b>HH55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>121</b>
 	Mushroom Head With Lock & Key	<b>HQ55C</b> □	1-Red 2-Green 3-Black 4-Yellow	<b>234</b>
 	Mushroom Head 'Push Pull'	<b>HG55B</b> □	1-Red 2-Green 3-Black 4-Yellow 6-Blue	<b>213</b>
 	Twin Touch	<b>HD15G0</b>		<b>92</b>
 	Twin Touch	<b>HD15G</b> □	3-Black 4-Yellow 5-White/Opal 6-Blue 7-Orange 8-Colourless	<b>125</b>
 	Symmetric Head	<b>2 Position</b> Non Spring Return  <b>HK65C</b> □ Spring Return  <b>HI65C</b> □ <b>3 Position</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> □	1-Red 2-Green 3-Black	<b>172</b>
1-Red 2-Green 3-Black 5-White/Opal				

## Standard Push Button & Selector Actuators Ø 22.5 mm

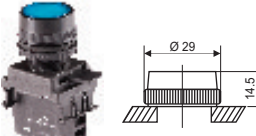
	Description	Cat. No.	Colour (4 <sup>th</sup> Digit)	M.R.P. (₹) Per Unit	
	Lever Head	<b>2 Position</b>		1-Red 3-Black 5-White/Opal	172
		Non Spring Return	 <b>HK75C□</b>		
		Spring Return	 <b>HI75C□</b>		
		<b>3 Position</b>			181
		Non Spring Return	 <b>HL75C□</b>		
		Spring Return	 <b>HJ75C□</b>		
		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	234
		Non Spring Return	 <b>HK85C□</b>		
		Spring Return	 <b>HI85C□</b>		
		<b>3 Position</b>			244
		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	142
		Non Spring Return	 <b>HP95C□</b>		
	Lock & Key Push Turn	<b>2 Position</b>		3-Black	244
		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 th 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

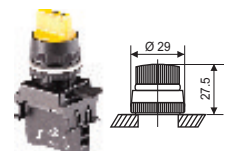
## Standard Illuminated Actuators With LED



- 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	163
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	309





## 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	163
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	309
	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	238
			B-Blue W-White	240A - 240 VAC 220D - 220 VDC	384
	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	214
	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	259
		<b>2 Position</b> Spring Return  EAL□□□□SI1	B-Blue W-White		384
		<b>3 Position</b> Non Spring Return  EAL□□□□SL1	R-Red G-Green Y-Yellow A-Amber		270
		<b>3 Position</b> Spring Return  EAL□□□□SJ1	B-Blue W-White		
		<b>3 Position</b> Spring Return from L. H.  EAL□□□□SM1	B-Blue W-White		396
		<b>3 Position</b> Spring Return from R. H.  EAL□□□□SN1			

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	-	-	47
	'NC' Block	HC61B2	-	-	47
	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	102  239 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	<b>JAE10000</b>	<b>369</b>
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' for Stop	<b>JAF10000</b>	<b>416</b>
	Mushroom Head Actuator with Lock and Key on Yellow Cover, with legend - STOP, Contact - 1 'NC' for Emergency Stop	<b>JAG10000</b>	<b>507</b>
	Push Button Station with Push Pull Emergency Switch, Red with 1 NC	<b>TJ51B2</b>	<b>450</b>
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC'	<b>JAA10000</b>	<b>346</b>
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO'	<b>JAB20000</b>	<b>346</b>
	Illuminated Actuator - Red with Legend - OFF Contact - 1 'NC' Bulb Holder with Bulb 240 VAC	<b>JAC50000</b>	<b>392</b>
	Illuminated Actuator - Green with Legend - ON Contact - 1 'NO' Bulb Holder with Bulb 240 VAC	<b>JAD60000</b>	<b>409</b>
	Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON Contact - 1 'NO'	<b>JAH20000</b>	<b>457</b>
	Two Position Lock & Key Rotary Switch with Legend - OFF / ON Contact - 1 'NO'	<b>JAI20000</b>	<b>518</b>
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' ( <i>Station One</i> )	<b>JBB2A100</b>	<b>500</b>
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' ( <i>Station Two</i> )		
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' ( <i>Station One</i> )	<b>JBB2F100</b>	<b>555</b>
	Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC'		
	Pilot Light 240 VAC Colourless Lens ( <i>Station One</i> )	<b>JCZ4B2A1</b>	<b>677</b>
	Flush Head Actuator - Green with Legend - START Contact - 1 'NO' ( <i>Station Two</i> )		
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' ( <i>Station Three</i> )		
	Flush Head Actuator - Green with Legend - FORWARD Contact - 1 'NO' ( <i>Station One</i> )	<b>JDB2A1B2</b>	<b>636</b>
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' ( <i>Station Two</i> )		
	Flush Head Actuator - Green with Legend - REVERSE Contact - 1 'NO' ( <i>Station Three</i> )		
	Flush Head Actuator - Green with Legend - UP Contact - 1 'NO' ( <i>Station One</i> )	<b>JEB2A1B2</b>	<b>636</b>
	Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' ( <i>Station Two</i> )		
	Flush Head Actuator - Green with Legend - DOWN Contact - 1 'NO' ( <i>Station Three</i> )		






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>193</b>
	All Grey & 3 holes of Ø 22.5		<b>HF999003</b>	<b>193</b>
	Single hole yellow cover & gray base		<b>HF995001</b>	<b>176</b>
	Base mounted contact block for Push Button Stations	'NO' Contact Block	<b>HC42A2</b>	<b>56</b>
		'NC' Contact Block	<b>HC42B2</b>	
		1 'NO' + 1 'NC' Contact Block	<b>HC42C2</b>	<b>88</b>
		2 'NO' Contact Block	<b>HC42D2</b>	<b>88</b>
		2 'NC' Contact Block	<b>HC42E2</b>	
		Bulb Holder with Bulb 240 VAC+ 'NO' Contact Block	<b>HC22N1</b>	<b>122</b>
	Bulb Holder with Bulb 240 VAC+ 'NC' Contact Block	<b>HC22O1</b>		

## Standard All Purpose Enclosures



	Description		Cat. No.	M.R.P. (₹) Per Unit
	Dimension: 110 X 80 X 65 mm	All Grey without hole		<b>HF999000</b>
All Grey & 1 hole of Ø 22.5			<b>HF999001</b>	<b>193</b>
All Grey & 2 holes of Ø 22.5			<b>HF999002</b>	<b>193</b>
 	4 Station Enclosure (maximum 3 NO/NC per button)		<b>HF999024</b>	<b>457</b>
Dimension: 170 X 85 X 80 mm				
 	1 Station Enclosure (maximum 4 NO or NC)		<b>HF999026</b>	<b>350</b>
Dimension: 80 X 82 X 85 mm				


Note: Only standard series actuators and contact block (HC61A2 & HC62B2) 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
	Second Row Clip (For Vertical Cascading)	<b>HC122030</b>	<b>14</b>
	Side Row Clip (For Horizontal Cascading)	<b>HC929002</b>	
	First Row Clip	<b>HC922002</b>	
	Single Leg Clip	<b>HE102000</b>	


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

Modular Blocks (Bulb Holders with Series Resistor)	Bulb Rating	Cat. No.	Supply Voltage	M.R.P. (₹) Per Unit
	6V, 2W	<b>HC61S1</b>	6 VAC/DC	<b>75</b>
	12V, 2W	<b>HC61T1</b>	12 VAC/DC	
	24V, 2W	<b>HC61U1</b>	24 VAC/DC	
	48V, 2W	<b>HC61V1</b>	48 VAC/DC	
	130V, 20mA	<b>HC61W1</b>	110 VAC/DC	
<b>Bulb Holder with Built in Resistor &amp; Diode</b>	130V, 20mA Bulb	<b>HC61X1</b>	240 VAC Supply	<b>79</b>
<b>Bulb Holder without Resistor &amp; Diode</b>		<b>HC61R1</b>	6V/12V/24V/48V 110 VAC/DC	<b>67</b>
<b>Filament Lamps (BA 9S Type)</b> 		<b>HC550001</b>	6 VAC/DC	<b>18</b>
		<b>HC550002</b>	12 VAC/DC	
		<b>HC550003</b>	24 VAC/DC	
		<b>HC550004</b>	48 VAC/DC	
		<b>HC550005</b>	130 VAC/DC	

Fixing Device	Cat. No.	M.R.P. (₹) Per Unit
	<b>HH192000</b>	<b>36</b>




Lamp Extractor	Cat. No.	M.R.P. (₹) Per Unit
	<b>HH157000</b>	<b>12</b>



Shroud (Boot) for Actuator	Cat. No.	Colour	M.R.P. (₹) Per Unit
	<b>HH152002</b>	Red	<b>12</b>
	<b>HH153003</b>	Green	
	<b>HH154004</b>	Black	
	<b>HH155005</b>	Yellow	
	<b>HH150100</b>	Colourless	<b>17</b>

Spare Lens Cap	Colour	Cat. No.		M.R.P. (₹) Per Unit
		Non Illuminated	Illuminated	
	Red	HB103002	HB103103	10
	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 series indicator & actuators.

	Cat. No.	Colour	M.R.P. (₹) Per Unit
<b>Collar (For Flush/ Projecting Head)</b> 	HB192000	Chrome Plated 'ABS'	9
	HB196000	Black	9
	HB326000	Brass	29
<b>Adaptor Ring (For 30 to 22 mm in Panel Cutout conversion)</b> 	HH180000	Gray	13
	HH182004	Chrome Plated 'ABS'	
	HH196006	Black	
<b>Blanking Plugs</b> 	HH180002	Gray	25
	HH182009	Black	
	HH196010	Chrome Plated 'ABS'	
<b>Center Indication Strip (For Twin Touch Actuator)</b> 	HB102058	Black	25
	HB105163	Yellow	
	HB108169	Orange	
	HB100161	Colourless	

Metal Plates - Spare	Cat. No.	M.R.P. (₹) Per Unit
 Small	HH2420122	11
 Large	HH2420124	11
 Square	HH2420123	11

Plastic Plate	Cat. No.	M.R.P. (₹) Per Unit
 Yellow legend plate	HB135000	31
 Protecting Shroud	HF195004	31

Note: Printing as per customer requirement




These products are manufactured by



# Electronic Metering Devices

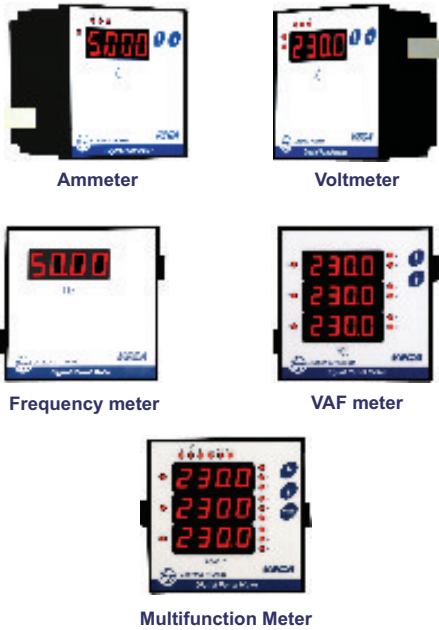
## 3 Phase Flush Mounting Meter

- Class 1 meter in 96 X 96 mm

	Model	Description	Cat. No.	M.R.P. (₹) Per Unit
	Gemini	3 Ph 4W 240V 5A with RS 485 (Dual source kWh meter)	WM30DFC3CRS	4600
	Nova	3 Ph 4W 240V 5A (Multifunction meter)	WM30KFC3C00	4300
		3 Ph 4W 240V 5A with RS 485 (Multifunction meter with RS 485 port)	WM30KFC3CRS	4600
	AcruX	3 Ph 4W 240V 1A (kWh meter counter type)	WM301FC1C10	3200
		3 Ph 4W 240V 5A (kWh meter counter type)	WM301FC3C10	3200

## VEGA Series


- With RS 485 port

	Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Multifunction meters - class 1</b>			
 <p>Ammeter</p> <p>Voltmeter</p> <p>Frequency meter</p> <p>VAF meter</p> <p>Multifunction Meter</p>	3 Ph Multifunction Meter, Model A, 5A, class 1	WDM303FDWA1	6990
	3 Ph Multifunction Meter, Model B, 5A, class 1	WDM303FDNB1	10900
	3 Ph Multifunction Meter, Model C, 5A, class 1	WDM303FDNC1	16020
	3 Ph Multifunction Meter, Model A, 1A, class 1	WDM303ODWA1	6990
	3 Ph Multifunction Meter, Model B, 1A, class 1	WDM303ODNB1	10900
	3 Ph Multifunction Meter, Model C, 1A, class 1	WDM303ODNC1	16020
	3 Ph Multifunction Meter, Model A, 5A, class 1 with Relay	WDM303FDWA0	8200
	3 Ph Multifunction Meter, Model B, 5A, class 1 with Relay	WDM303FDNB0	13320
	3 Ph Multifunction Meter, Model C, 5A, class 1 with Relay	WDM303FDNC0	20500
<b>Multifunction meters - 0.5 class</b>			
	3 Ph Multifunction Meter, Model A, class 0.5*	WDM313CDWA1	9000
	3 Ph Multifunction Meter, Model B, class 0.5*	WDM313CDNB1	14000
	3 Ph Multifunction Meter, Model C, class 0.5*	WDM313CDNC1	20000
<b>VAF Meter</b>			
	3 Ph VAF, 5A, class 1	WDV303FC000	2600
	3 Ph VAF, 1A, class 1	WDV303OC000	2600
<b>Single Phase Basic Meters</b>			
	1 Ph Voltmeter class 1	WDS101FEV00	1000
	1 Ph Ammeter, 5A, class 1	WDS101FCA00	1000
	1 Ph Ammeter, 1A, class 1	WDS101OCA00	1000
	1 Ph Freq. meter class 0.2	WDS101FCF00	1000
<b>Three Phase Basic Meters</b>			
	3 Ph Voltmeter class 1	WDS301FEV00	1360
	3 Ph Ammeter, 5A, class 1	WDS301FCA00	1360
	3 Ph Ammeter, 1A, class 1	WDS301OCA00	1360

\*Site selectable 1A / 5A

## Intelligent Panel Meter


### Model QUASAR Class 1 (Flush Mounting) 96 x 96 mm

 <p>Quasar</p>	Description	Cat. No.	M.R.P. (₹) Per Unit
	3 Ph, 4W IPM 240V (L - N) 1A Class 1 FM	<b>WI300FC1300</b>	<b>8710</b>
	3 Ph, 4W IPM 240V (L - N) 5A Class 1 FM	<b>WI300FC5300</b>	<b>8710</b>
	3 Ph, 3W IPM 110V (L - L) 1A Class 1 FM	<b>WI301FC1300</b>	<b>8710</b>
	3 Ph, 3W IPM 110V (L - L) 5A Class 1 FM	<b>WI301FC5300</b>	<b>8710</b>
	3 Ph, 4W IPM 110V (L - L) 1A Class 1 FM *	<b>WI300FB1300</b>	<b>8710</b>
	3 Ph, 4W IPM 110V (L - L) 5A Class 1 FM *	<b>WI300FB5300</b>	<b>8710</b>
	3 Ph, 4W IPM 240V (L - N) 1A Class 1 FM with RS 485	<b>WI300FC13RS</b>	<b>9740</b>
	3 Ph, 4W IPM 240V (L - N) 5A Class 1 FM with RS 485	<b>WI300FC53RS</b>	<b>9740</b>
	3 Ph, 3W IPM 110V (L - L) 1A Class 1 FM with RS 485	<b>WI301FC13RS</b>	<b>9740</b>
	3 Ph, 3W IPM 110V (L - L) 5A Class 1 FM with RS 485	<b>WI301FC53RS</b>	<b>9740</b>
	3 Ph, 4W IPM 110V (L - L) 1A Class 1 FM with RS 485 *	<b>WI300FB13RS</b>	<b>9740</b>
	3 Ph, 4W IPM 110V (L - L) 5A Class 1 FM with RS 485 *	<b>WI300FB53RS</b>	<b>9740</b>

\* Available on request only

## Intelligent Panel Meter

### Model QUASAR plus Class 0.5 (Flush Mounting) 96 x 96 mm

 <p>Quasar</p>	Description	Cat. No.	M.R.P. (₹) Per Unit
	3 Ph, 4W IPM 240V (L - N) 1A Class 0.5 FM *	<b>WI300FC1200</b>	<b>10760</b>
	3 Ph, 4W IPM 240V (L - N) 5A Class 0.5 FM	<b>WI300FC5200</b>	<b>10760</b>
	3 Ph, 3W IPM 110V (L - L) 1A Class 0.5 FM *	<b>WI301FC1200</b>	<b>10760</b>
	3 Ph, 3W IPM 110V (L - L) 5A Class 0.5 FM	<b>WI301FC5200</b>	<b>10760</b>
	3 Ph, 4W IPM 110V (L - L) 1A Class 0.5 FM *	<b>WI300FB1200</b>	<b>10760</b>
	3 Ph, 4W IPM 110V (L - L) 5A Class 0.5 FM *	<b>WI300FB5200</b>	<b>10760</b>
	3 Ph, 4W IPM 240V (L - N) 1A Class 0.5 FM with RS 485	<b>WI300FC12RS</b>	<b>11790</b>
	3 Ph, 4W IPM 240V (L - N) 5A Class 0.5 FM with RS 485	<b>WI300FC52RS</b>	<b>11790</b>
	3 Ph, 3W IPM 110V (L - L) 1A Class 0.5 FM with RS 485 *	<b>WI301FC12RS</b>	<b>11790</b>
	3 Ph, 3W IPM 110V (L - L) 5A Class 0.5 FM with RS 485	<b>WI301FC52RS</b>	<b>11790</b>
	3 Ph, 4W IPM 110V (L - L) 1A Class 0.5 FM with RS 485 *	<b>WI300FB12RS</b>	<b>11790</b>
	3 Ph, 4W IPM 110V (L - L) 5A Class 0.5 FM with RS 485 *	<b>WI300FB52RS</b>	<b>11790</b>

\* Available on request only

## Panel Meter Overview

Meter Type	Parameters	Display	RS 485
Accrux	kWh	Counter	No
Vega VAF	V, A, F, RPM	LED	No
Nova	V, A, F, pf, kW, kWh	LCD	Optional
Gemini	V, A, F, kW, kWh - Dual source	LCD	Yes
Quasar	V, A, F, pf, Power, Energy, THD	LCD	Optional
Vega Model A	V, A, F, pf, Power, Energy, Run & ON hours, RPM	LED	Yes
Vega Model B	V, A, F, pf, Power, Energy, Run & ON hours, RPM + Neutral current, MD (kW & kVA), MD reset	LED	Yes
Vega Model C	V, A, F, pf, Power, Energy, Run & ON hours, RPM + Neutral current, MD (kW & kVA), MD reset + THD, Bi - directional	LED	Yes

# RPM = Rotations per minute

# 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 (DINRAIL Mounting)
Star Delta timer		40SFS0	Digicon , Micon 225	2ASDT0 (DINRAIL Mounting)
ON Delay timer		47OFE8, 43OFE8, 46OFE8	Digicon , Micon 225	2A6DT6 (DINRAIL Mounting)
Assymetrical ON/OFF and OFF/ON		Micon 225	2AJDT0	Micon 175
Hour Meter	HM 48	K54SF1	HM 36	LA25F1

### 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

PS: EAL series comes with inbuilt LED holder

\* 6th digit indicates colour

\* 4th digit indicates colour and 5th, 6th, 7th and 8th digit indicates voltage







## 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 four 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
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- Annual Maintenance Contract
- Product Support for Managing Obsolescence - Retrofitting & Upgradation of your switchgear products

\* Proof of purchase to be retained to avail warranty

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