

## MT6985S EN Electromechanical Lock

### Compliance with EN standards

**EN 179:2008** - Emergency exit

**EN 1634-1:2014** - Fire rated up to 4 hours

**EN 12209:2003/ AC:2005** -

Building hardware. Lock and latches.  
Mechanically operated locks, latches,  
and locking plates

**EN 14846:2008** -

Building hardware. Lock and latches.  
Electromechanically operated locks, latches,  
and locking plates

### Application

BSI EN Electromechanical Lock MT6985S consists the range of comprehensive functions that meet most security and locking application. This lock is suitable to be used in commercial or office buildings, public buildings and hotel. Typical applications are:

- Hotel Room
- Monitoring Door
- Office Door
- Security Door
- Private Door

The lock can meet various area and function requirements. Optional solenoid and motor for multi-usability. Easy egress from inside whilst maintaining outside security.

### Features

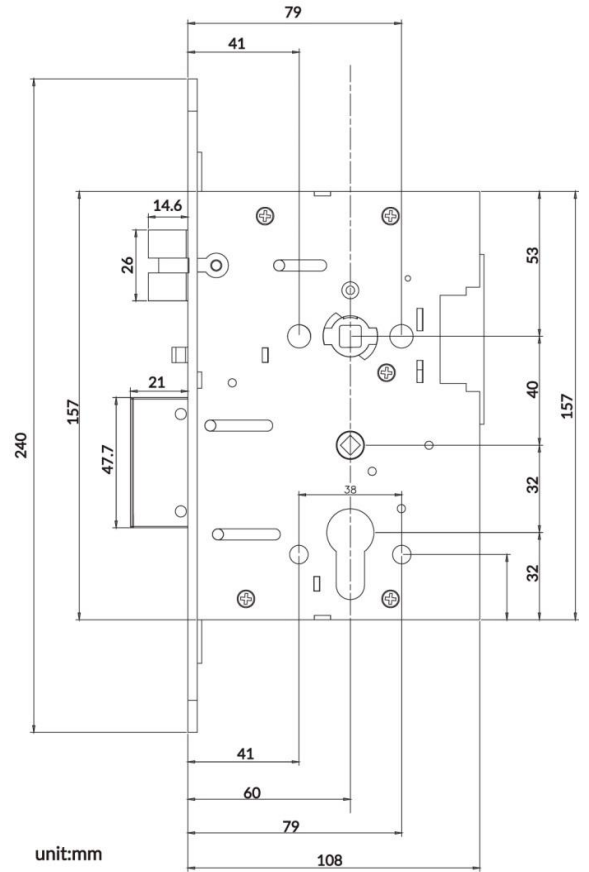
- Interchangeable handing
- Field selectable Fail Safe / Fail Secure configuration
- Field selectable operating voltage: 12/ 24 VDC
- Self-locking: Dead bolt throws out automatically when the door closed.
- Secured locking: in the locked state the dead bolt is thrown out and the latch need to be locked in position. Door secured locking in two points.



## Specifications

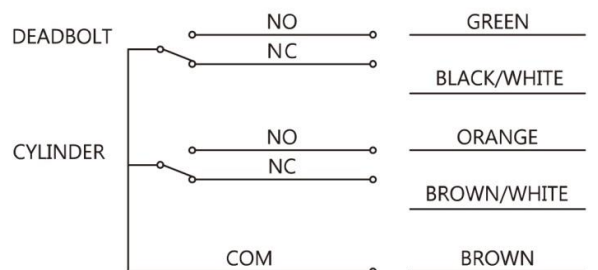
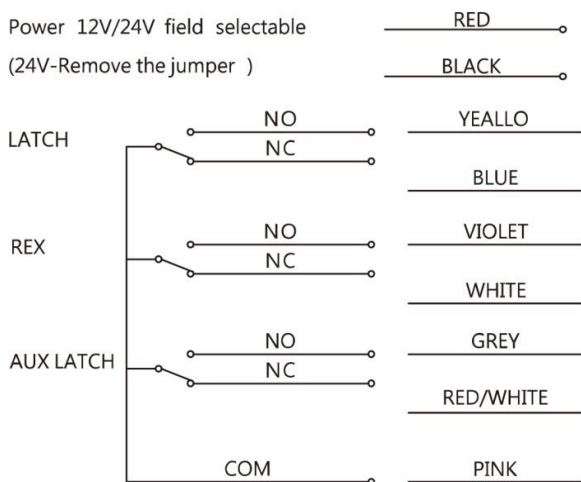
<b>Operation Voltage</b>	12VDC/ 24VDC
<b>Current</b>	Max 0.6 (12VDC), 0.3(24VDC)
<b>Operation Temperature</b>	-20°C ~ 60°C
<b>Bolt Throw</b>	21mm (Deadbolt), 14.6mm (Latch bolt - handy field adjustable)
<b>Backset / Cylinder to Handle</b>	60mm/ 72mm
<b>Forend</b>	24mm
<b>Handle Spindle</b>	8mm
<b>Finish</b>	Satin Stainless Steel
<b>Settable Function</b>	Mechanical function - handing of trigger bolt, electrically controlled side
<b>Electrical Function</b>	Fail Secure / Fail Safe
<b>Monitoring Outputs</b>	a. Latch b. Auxiliary Latch c. Deadbolt d. Cylinder e. Request-to-Exit

## Integrated Connector



## Wiring Diagrams

Power 12V/24V field selectable  
(24V-Remove the jumper )

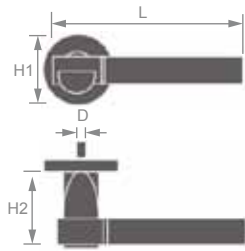
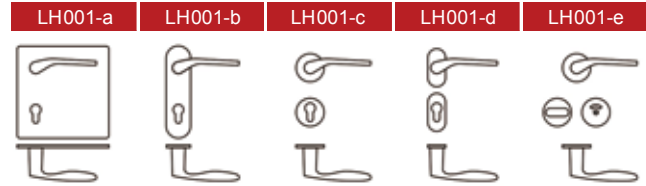
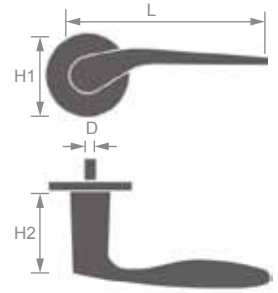


**Solid S.S. Lever Handle**



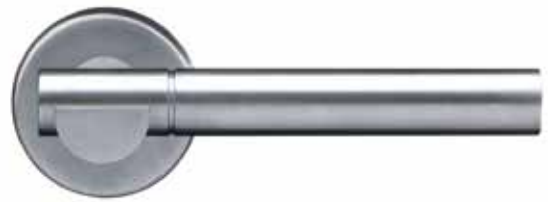
**LH001**

Size	mm	inch
L	125	4.92
H1	52	2.05
D	8	0.31
H2	52	2.05

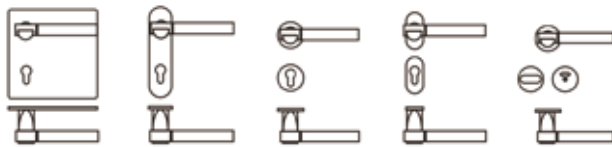


**LH028**

Size	mm	inch
L	140	5.51
H1	52	2.05
D	8	0.31
H2	56	2.20

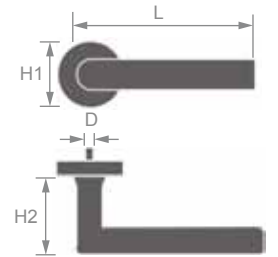


LH028-a LH028-b LH028-c LH028-d LH028-e

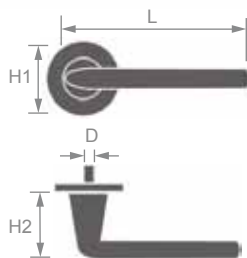
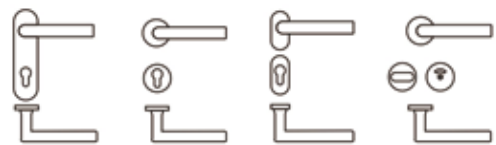


**LH074**

Size	mm	inch
L	119	4.69
H1	52	2.05
D	8	0.31
H2	55	2.17



LH074-a LH074-b LH074-c LH074-d



**LH121**

Size	mm	inch
L	125	4.92
H1	52	2.05
D	8	0.31
H2	52	2.05



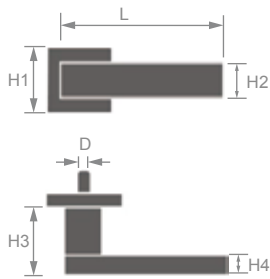
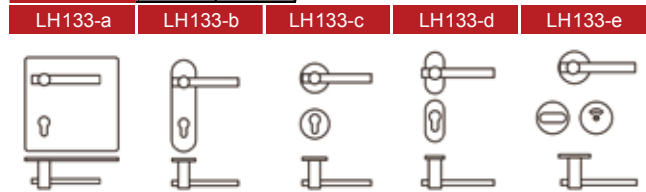
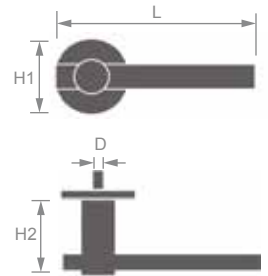
LH121-a LH121-b LH121-c LH121-d





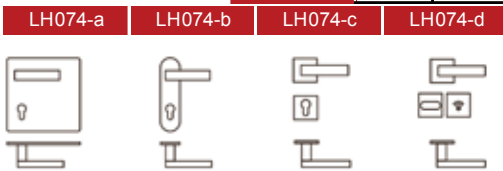
**LH133**

Size	mm	inch
L	130	5.12
H1	52	2.05
D	8	0.31
H2	52	2.05



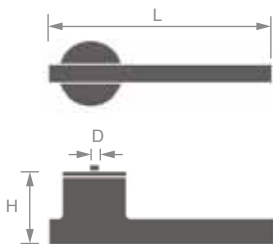
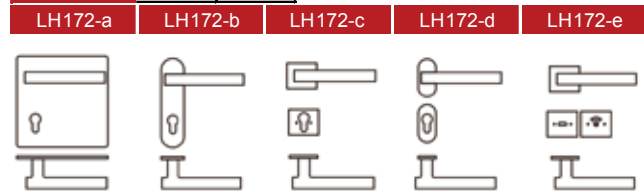
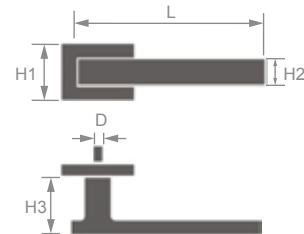
**LH144**

Size	mm	inch
L	115	4.53
H1	52	2.05
H2	20	0.79
D	8	0.31
H3	62	2.44
H4	21	0.83



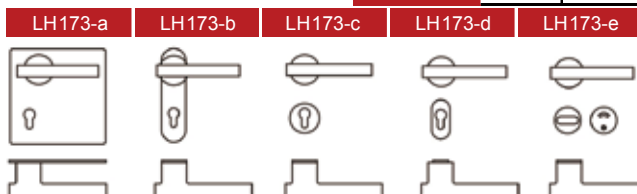
**LH172**

Size	mm	inch
L	139	5.47
H1	52	2.05
H2	20	0.79
D	8	0.31
H3	38	1.50



**LH173**

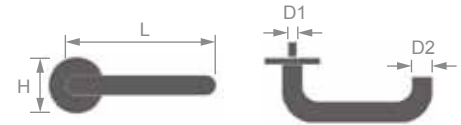
Size	mm	inch
L	125	4.92
D	8	0.31
H	45	1.77



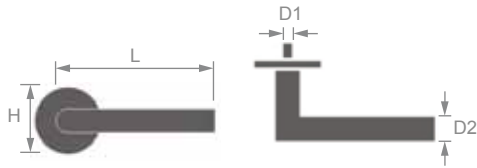
**Solid S.S. Lever Handle**



**TH101**



Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31

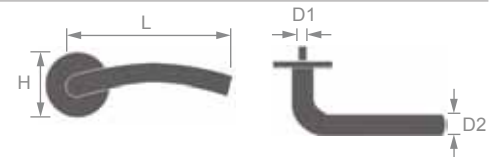


**TH104**

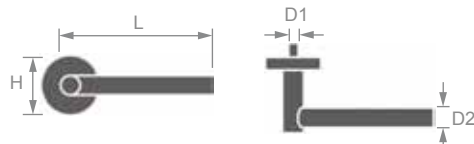
Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31



**TH106**



Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31



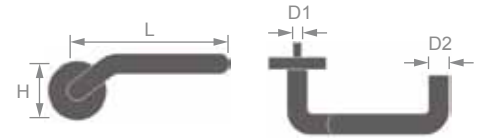
**TH113**

Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31

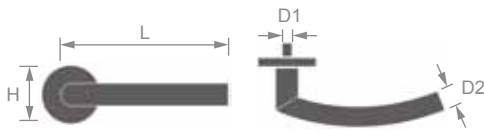




TH116



Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31

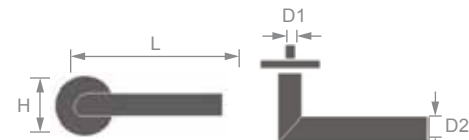


TH119

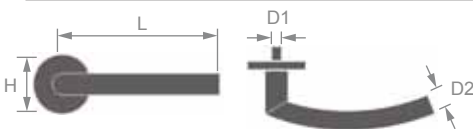
Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31



TH122



Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31



TH124

Size	19		20		21		22	
	mm	inch	mm	inch	mm	inch	mm	inch
L	130	5.12	140	5.51	140	5.51	140	5.51
H	60	2.36	65	2.56	65	2.56	65	2.56
D1	16	0.63	19	0.75	20	0.79	20	0.79
D2	8	0.31	8	0.31	8	0.31	8	0.31



**Solid S.S. Lever Handle Finish**



**630**  
Satin Stainless Steel



**605**  
Bright Brass



**629**  
Bright Satinless Steel



**PVD**  
Physical Vapor  
Deposition



**630**  
Satin Stainless Steel

**Cylinders**

**LK101**



**LK102**



**LK103**



**LK104**



**LK105**



**LK106**



**LK107**



**LK108**



**LK109**



**LK110**



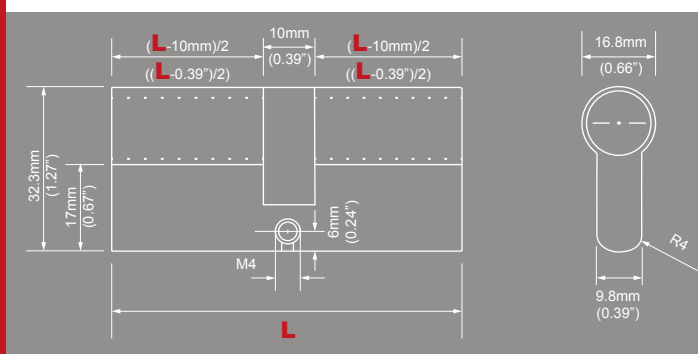
**LK111**



**LK112**



**Dimension:**



**Available Length(L):**

50mm(1.97"), 55mm(2.17"), 60mm(2.36"),  
63mm(2.48"), 65mm(2.56"), 70mm(2.76"),  
80mm(3.15"), 90mm(3.54"), 100mm(3.94")

**Finish:**

Satin and Lacquered, Polished and Lacquered  
Nickel Plated, Chrome Plated, Gold Plated,  
Antique Brass Plated, Antique Copper Plated,