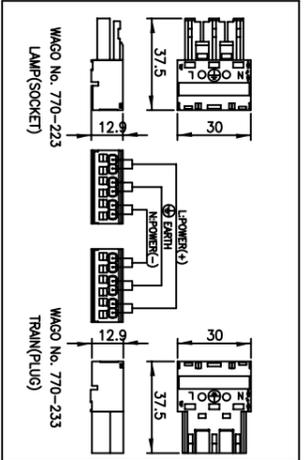
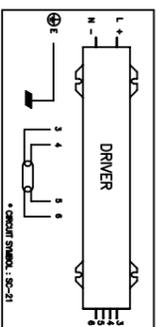
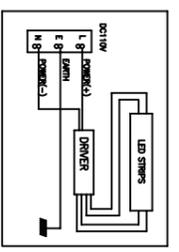
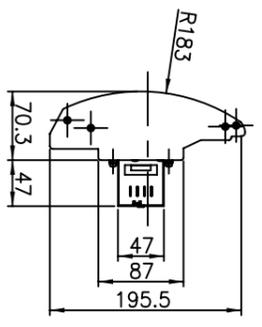
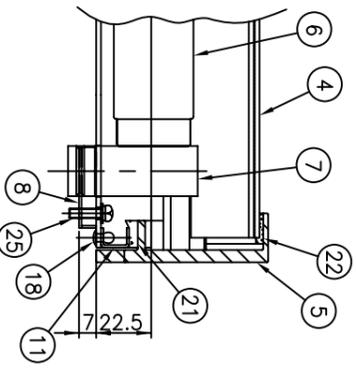
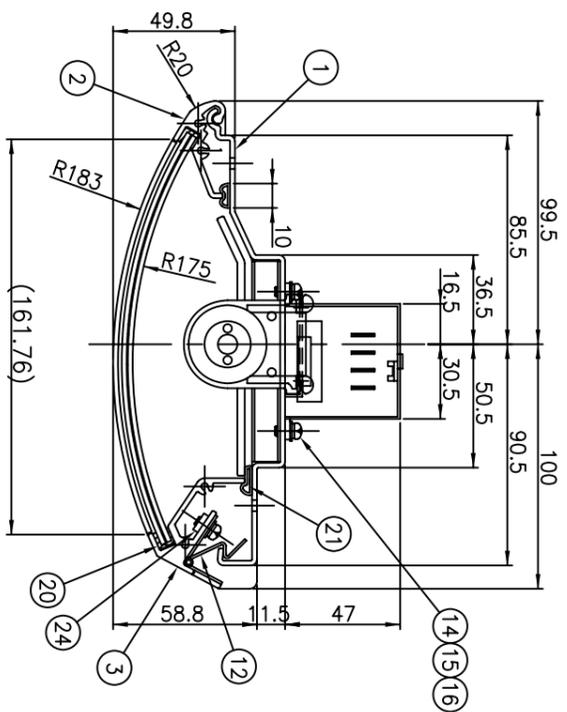
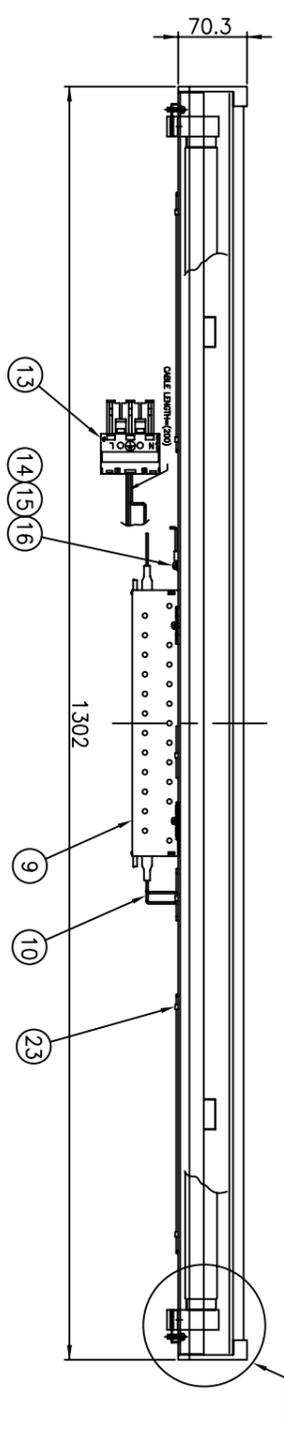
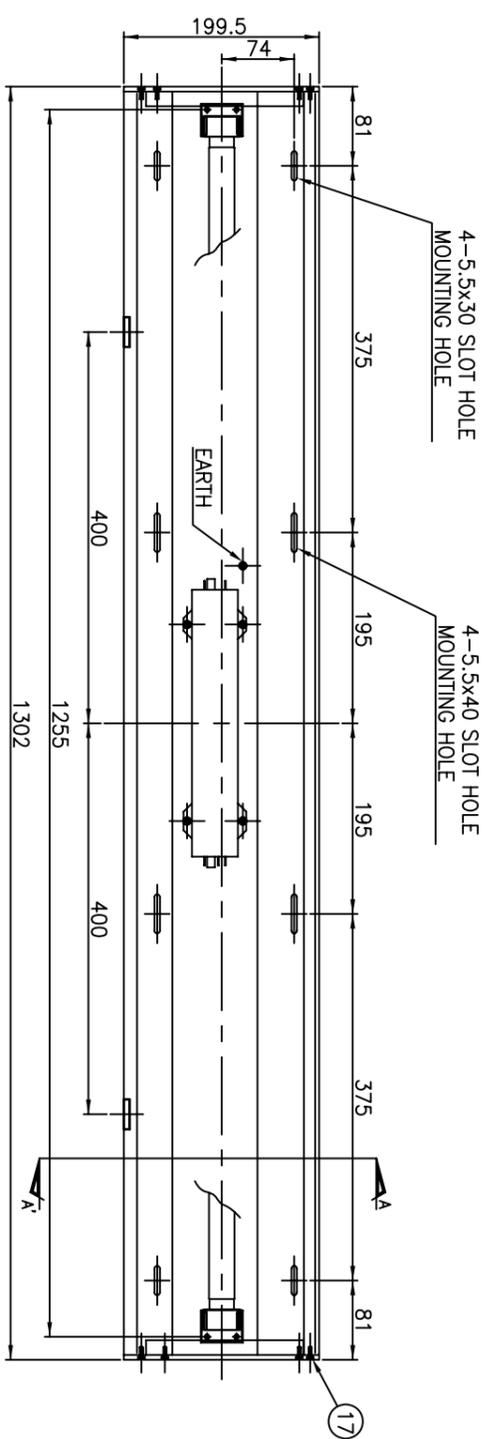


GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												



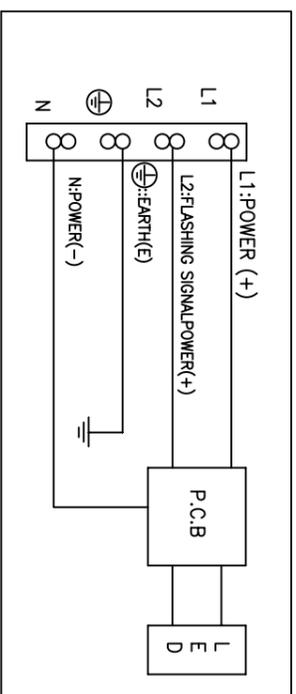
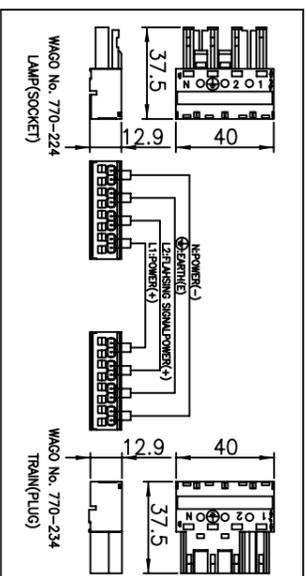
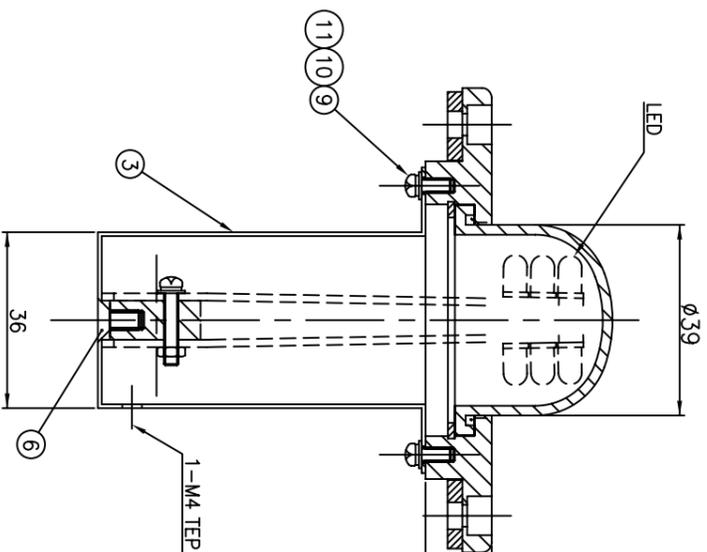
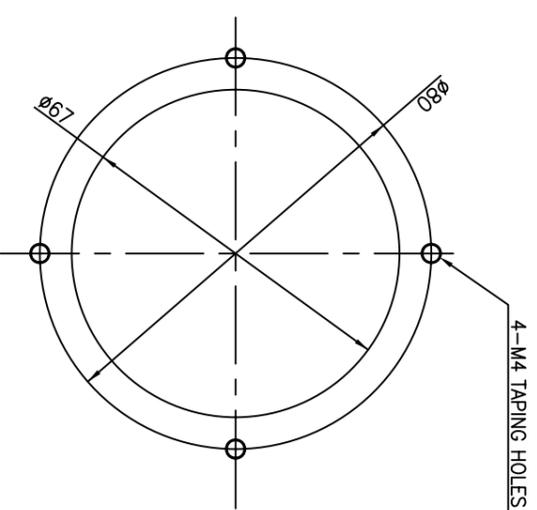
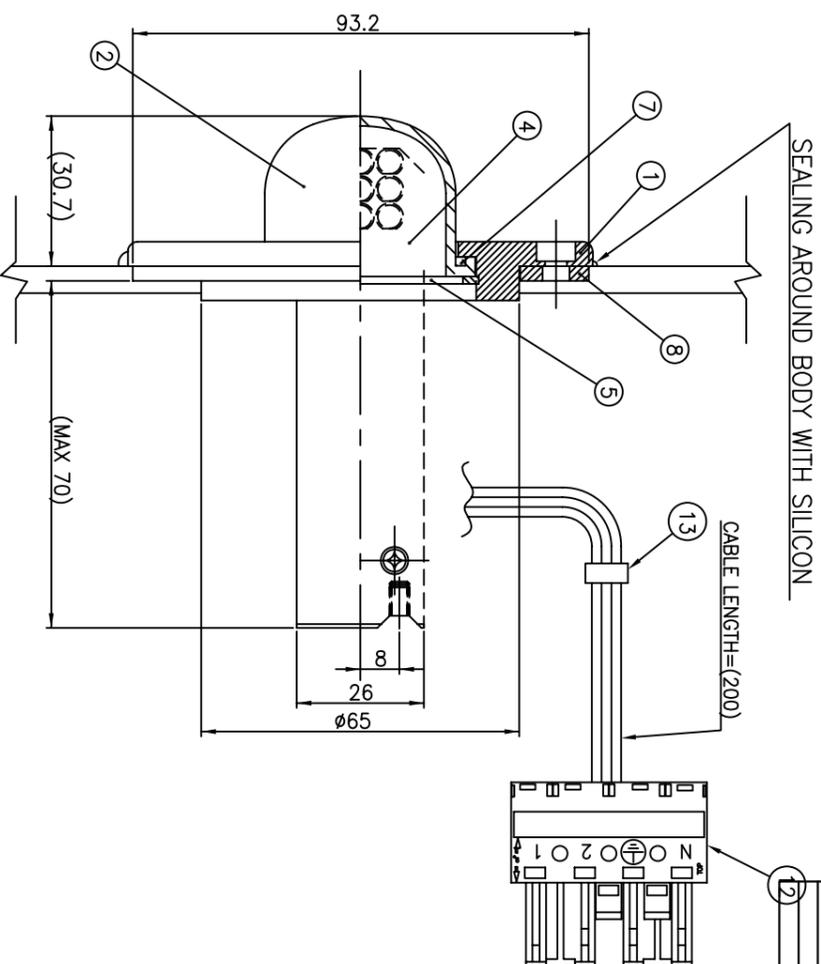
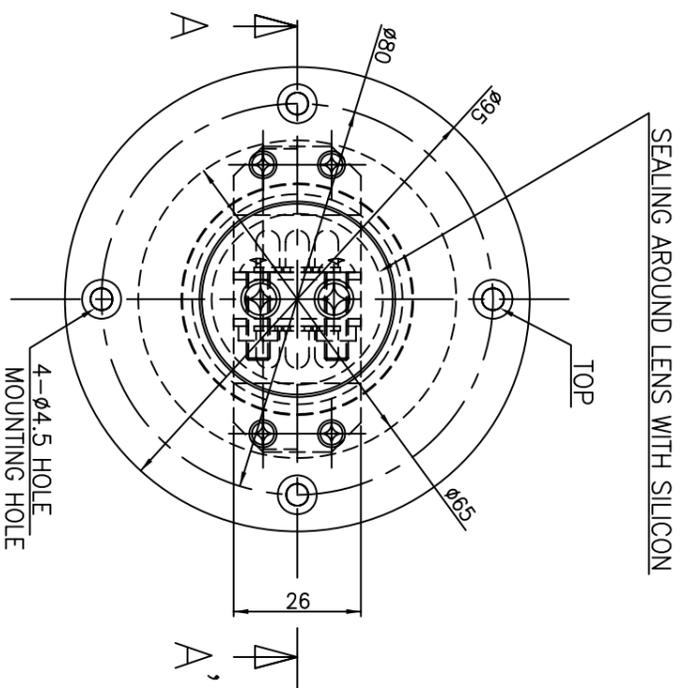
NOTE: ALL MATING CONNECTORS FOR CAR BODY SIDE WIRING ALONG WITH PINS/SOCKETS TO BE SUPPLIED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
UNSPECIFIED TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RO-27	FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RO-27								
	VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 002/C								
WELDING SHALL BE CARRIED OUT AS PER IS 9595-96									
QUALITY OF WELD JOINT'S REF. RO 230 MEDIUM									
STATUS:									

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL	WT. (kg)
4			SCREW	M14X13	SUS304	
2			TAP SEAT	t=2.3	SCP1	
6			CABLE HOLDER			
2			SIDE PAD	t=5.0	SPONGE	
1			BODY PAD	t=1.0	SILICON	
2			GLOBE PACKING	BLACK	RUBBER	
4			TAPPING SCREW	M3x6	STSS304	
8			BLIND RIVET	Ø3	AV	
8			SCREW	M3x10	SUS304	
9			P/WASHER	for M4	SUS304	
9			SP/WASHER	for M4	SUS304	
9			SCREW	M4x8	SUS304	
1			CONNECTOR SET(3P)	770-223,233,121		
2			LOCKING SET			
2			BODY SUPPORT	t=1.0	SUS304	
1			CABLE SET	OVER Ø0.85		
1			DRIVER	DC110V		
2			SOCKET BRACKET	h=7	SUS304	
1			LED SOCKET			
1			LED STRIPS		AIDC	
2			SIDE COVER(L/R)		GLASS	
1			GLOBE	t=4.38,MILK WHITE		
1			LOCKING FRAME		A6063S	
1			HINGE FRAME		A6063S	
1			BODY	t=2.0	A6063S	

PRODUCT	DMRC RS-13
REF. DRG.	ELP00682
MATERIAL	
TREAT	
SURFACE TREAT	
TITLE	LED BASED SALOON LIGHT
CHGD	K.NAGARAJ
APPRD	K.C. SHAHIKANTH
DRWN	AMBIKA HS
SCALE	1 OF 1
DATE	07.05.15
DRG No.	909-21316
ALT	

GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽



- NOTE: 1. ALL MATING CONNECTORS FOR CAR BODY SIDE WIRING ALONG WITH PINS/SOCKETS TO BE SUPPLIED
 2. OPERATING VOLTAGE: DC110V (77V ~ 137V).
 3. DIMENSIONS SHOULD BE INLINE WITH THIS DRAWING.
 4. P.TS GR/TD/3007 TO BE FOLLOWED.
 5. INDEX OF PROTECTION SHOULD BE: IP67.

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. IS 202 (P1-1) (MEDIUM)										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 002/C										
WELDING SHALL BE CARRIED OUT AS PER IS 9595-96										
STATUS:										

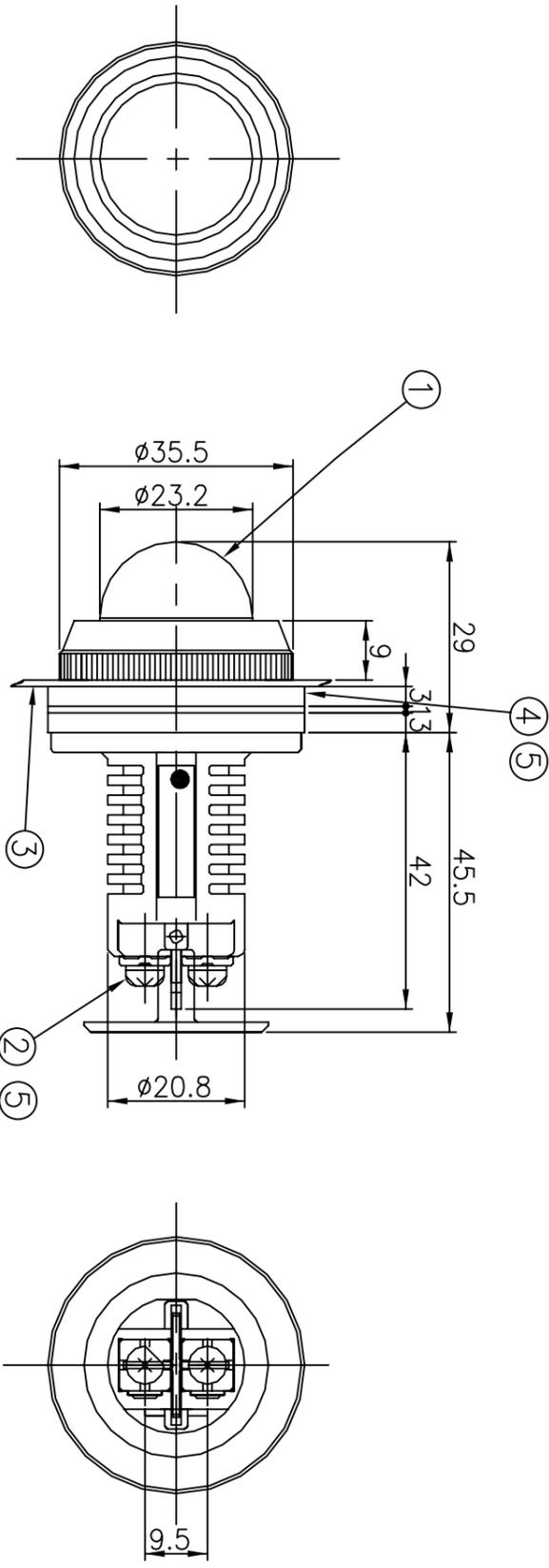
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL
13	1		CABLE TIE	L=100	NYLON
12	1		CONNECTOR(4P)	770-224,234,121	ASS'Y
11	4		P/WASHER	for M3	STSS304
10	4		SP/WASHER	for M3	STSS304
9	4		P.H SCREW	for M3	STSS304
8	1		PAD for BODY	M3x6	EPDM
7	2		PAD for LENS	t=3	EPDM
6	2		SCREW	φ=2.1=L=125	STSS304
5	1		SNAP RING	M4x8	STSS304
4	2		P.C.B ASS'Y	t=1.0	ASS'Y
3	1		P.C.B BRACKET	t=0.8	SCP1
2	1		LENS	t=2.0,AMBER	P.C
1	1		BODY		Al

PRODUCT	DMRC BG METRO CARS
REF. DRG.	
MATERIAL	
TREAT.	
SURFACE TREAT.	
TITLE	DOOR INDICATION LAMP (OUTSIDE)-LED
CHKD	HARIRAMPRASAD
REV'D	M.SADHASIVAM
APP'D	K.C.SHASHIKANTH
DATE	17.02.2016
BY	
CHKD	
APP'D	
DATE	17.02.2016
SCALE	1 OF 1
SHEET	0
Wt.(Kg)	
DRG No.	909-21319
ALT	

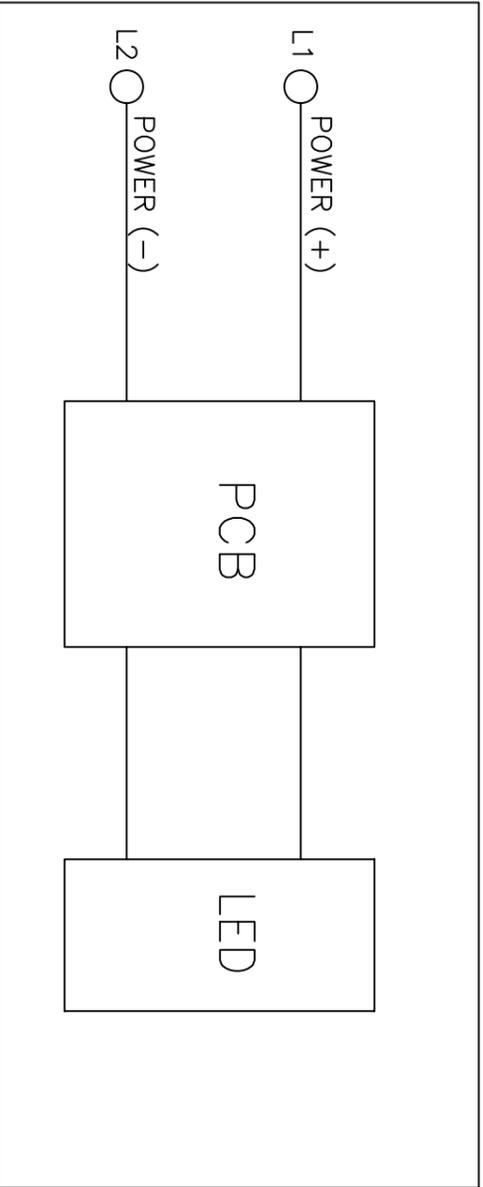
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GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315 - 1000	1000 - 2000	2000 - 4000	ABOVE 4000	RA
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
STATUS:										QUALITY OF WELD JOINTS REF. RD 230 MEDIUM



- NOTE:**
1. ALL MATING CONNECTORS FOR CAR BODY SIDE WIRING ALONG WITH PINS/SOCKETS TO BE SUPPLIED
 2. OPERATING VOLTAGE: DC110V (77V ~ 137V).
 3. DIMENSIONS SHOULD BE INLINE WITH THIS DRAWING.
 4. PTS GR/TD/3007 TO BE FOLLOWED.



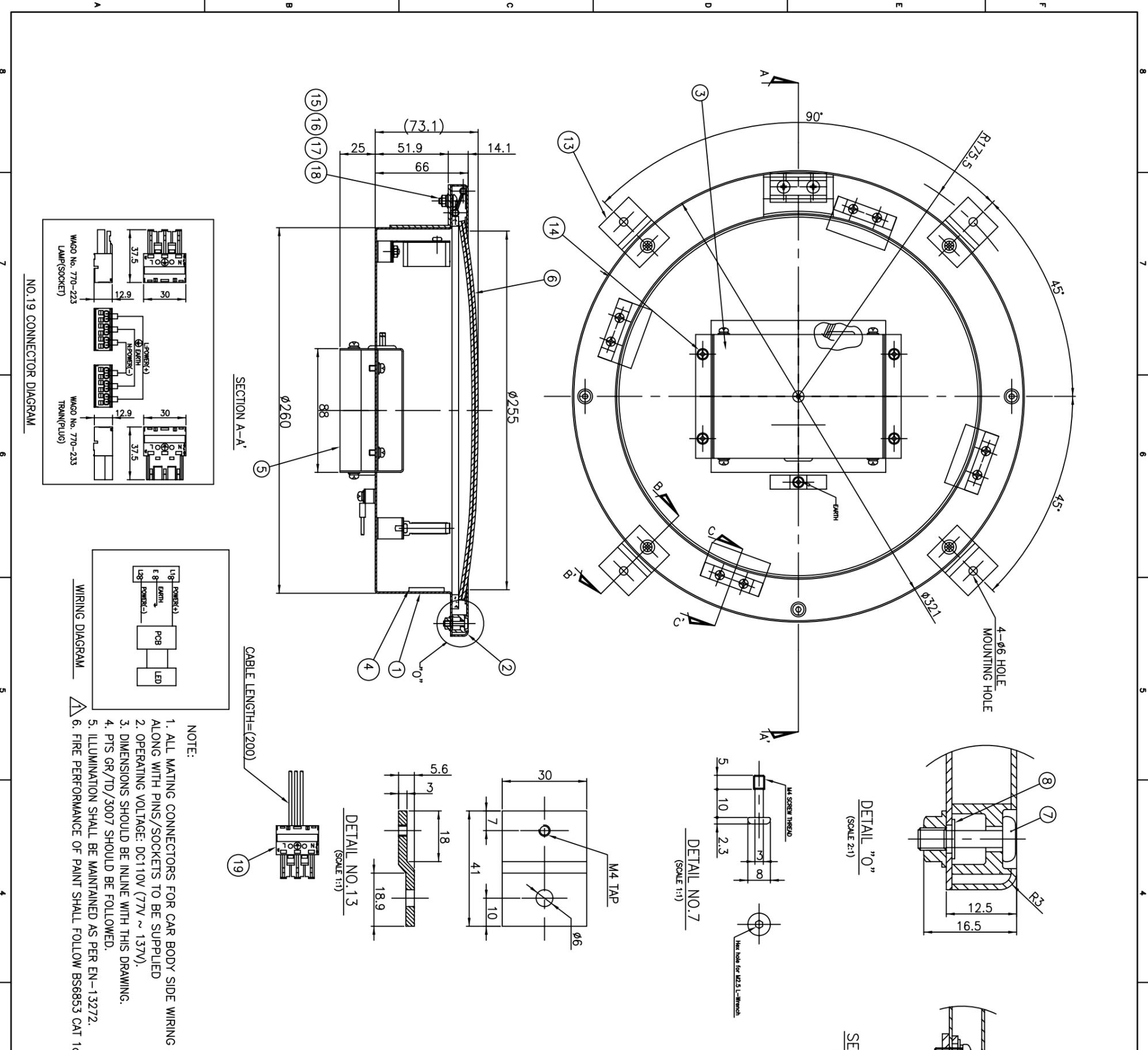
WIRING DIAGRAM

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I/S	Wt. (kg)
6	2		SCREW	M3.5X8		
4	1		LOCK NUT			
3	1		BODY			
2	1		TERMINALS			
1	1		LED			

AL.T.NG.	ECN NO./CHANGES	DATE	BY	CHKD	APPD
DMRC BG METRO CARS PRODUCT REF DRG MATERIAL HEAT TREAT. SURFACE TREAT. TITLE DOOR INDICATION LAMP (INSIDE)-(LED)					
APPD: K.C.SHASHIKANTH REVD: M.SADHASIVAM CHKD: HARIRAMPRASAD DRWN: SUSHILA PATIL			17.02.2016 17.02.2016 17.02.2016 17.02.2016		
SCALE: 1 OF 1 SHEET: 0		DRG No. 909-21320			
BEML LIMITED					

GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												

ROUGHNESS



1	Point details updated in Notes	ECN NO./CHANGES	DATE: 18.08.2016	BY: SUSHILA PATIL	CHKD: HARIRAMPRASAD	APPD: K.C.SHASHIKANTH
<p>GANGWAY LIGHT (LED)</p> <p>DRWN: SUSHILA PATIL 17.02.2016</p> <p>CHGD: HARIRAMPRASAD 17.02.2016</p> <p>REVD: M.SADHASIVAM 17.02.2016</p> <p>APPR: K.C.SHASHIKANTH 17.02.2016</p> <p>SCALE: 1 OF 1</p> <p>DRG No: 909-21321</p>						

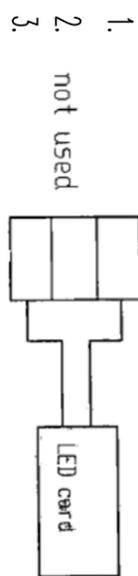
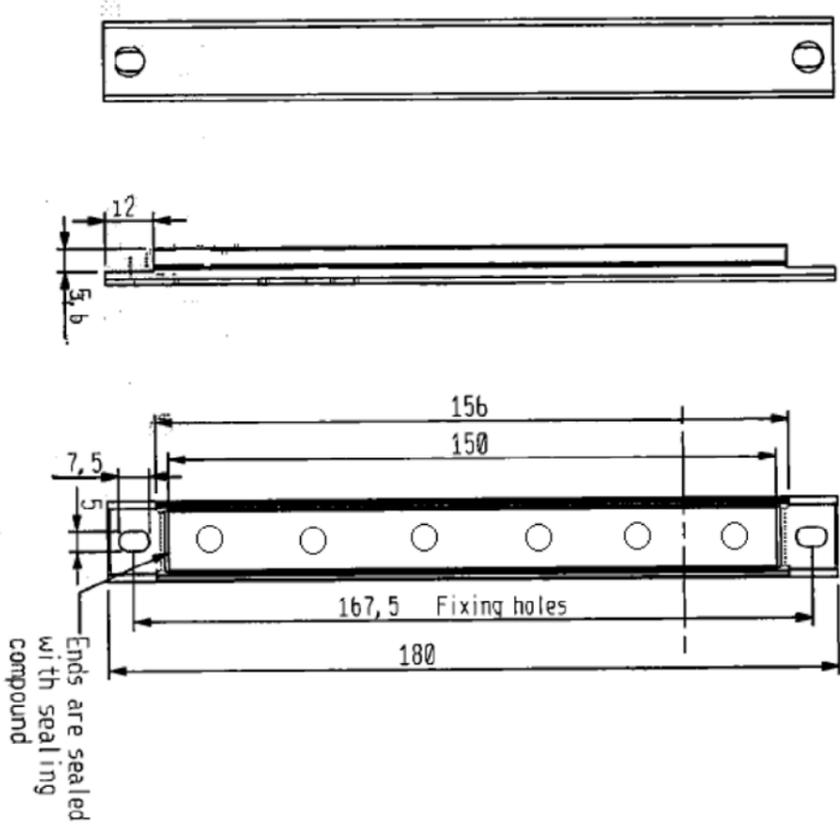
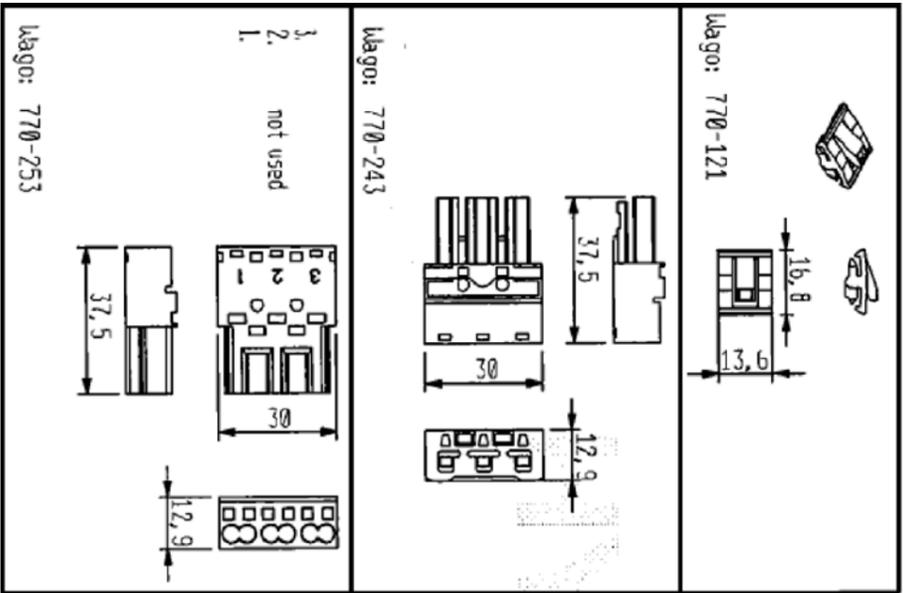
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL	WT. (kg)
21	4		SET SCREW	M4x10	SUS304	
20	4		LENS PAD	t=2.0	SPONGE	
19	1		CONNECTOR(3P)	770-223,233,121	ASSY	
18	4		NUT	M4	SUS304	
17	4		P/WASHER	FOR M4	SUS304	
16	12		SP/WASHER	FOR M4	SUS304	
15	2		SCREW	M4x10	SUS304	
14	6		SET SCREW	M4x8	SUS304	
13	4		BODY BRACKET	t=3.0	SUS304	
12	1		PAD for BODY	t=5.0	SPONGE	
11	1		PAD for GLOBE	t=2.0	SPONGE	
10	8		SCREW	M4x6	SUS304	
9	4		BRACKET for GLOBE	t=0.6	SUS304	
8	3		SNAP RING	for M3	SM45C	
7	3		LOCKING SCREW	for M4	SUS304	
6	1		GLOBE	Milk White	GLASS	
5	1		POWER SUPPLY UNIT		ASSY	
4	1		PAD	t=3	SPONGE	
3	1		LED BOARD		ASSY	
2	1		COVER	t=1.0	SCP1	
1	1		BODY	t=1.0	SCP1	

PRODUCT	DMRC BG METRO CARS					
REF. DRG.						
MATERIAL						
TREAT.						
SURFACE TREAT.						
TITLE	GANGWAY LIGHT (LED)					
APPR	K.C.SHASHIKANTH	17.02.2016				
REVD	M.SADHASIVAM	17.02.2016				
CHGD	HARIRAMPRASAD	17.02.2016				
DRWN	SUSHILA PATIL	17.02.2016				
SCALE	1 OF 1					
NTS						0
DRG No.	909-21321					ALT
ALT No.						

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RO-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS, REFER STD. RO-227										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD. DS. 002.C										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
QUALITY OF WELD JOINTS, REFER: RO 230 MEDIUM										
STATUS:										

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GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												



SEALED TO IP54 (EXCEPT THE CONNECTORS)

LUMINOUS FLUX: 150 LUMEN
 NOMINAL POWER 2.3W
 LIGHT UNIT WEIGHT: 0.1KG

- NOTE: 1. ALL MATING CONNECTORS FOR CAR BODY SIDE WIRING ALONG WITH PINS/SOCKETS TO BE SUPPLIED
 2. OPERATING VOLTAGE: DC24V.
 3. DIMENSIONS SHOULD BE INLINE WITH THIS DRAWING.
 4. PTS GR/TD/3007 TO BE FOLLOWED.
 5. FIRE PERFORMANCE OF PAINT SHALL FOLLOW BS6853 CAT 1a.

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3	~
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (P1-1) (MEDIUM)										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1021C										
WELDING SHALL BE CARRIED OUT AS PER IS 9595-96										
STATUS:										

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./S	WT. (KG)	MATERIAL
3	1		3P CONNECTOR	770-243 WAGO			ASSY
2	1		LOCKING LEVER	770-121 WAGO			ASSY
1	1		3P CONNECTOR	770-253 WAGO			ASSY

PRODUCT	DMRC BG METRO CARS
REF. DRG.	
MATERIAL	
TREAT.	
SURFACE TREAT.	
APPRO.	K.C.SHASHIKANTH
REVD.	M.SADHASIVAM
CHKD.	HARIRAMPRASAD
DRWN.	SUSHILA PATIL
SCALE	1 OF 1
NTS	
DRG No.	909-21322

DATE	18.08.2016
BY	SUSHILA PATIL
CHKD	HARIRAMPRASAD
APPD	K.C.SHASHIKANTH
ALT.ND	
ECN NO./CHANGES	
Notes	Point details updated in Notes

BEML BEML LIMITED

909-21322

A2