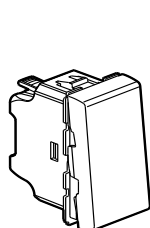


DALI sensor and ballast **Auto ON/Auto OFF operation** **Lighting regulation, lux level control**

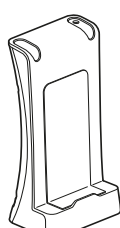
Cat. No(s): 0 489 53



0489 53



0 770 30



0882 40 and Legrand CloseUp app



CONTENTS	PAGE
1. Use case	1
2. Description	1
3. Wiring diagram	2
4. Configuration	2
5. Adjustment of lighting regulation parameters	7
6. Monitoring of DALI frames	8

1. USE CASE

Meeting rooms/office suites



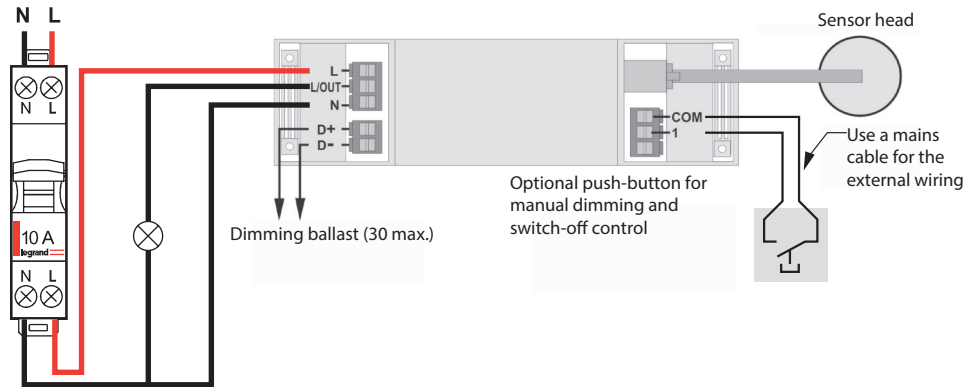
2. DESCRIPTION

Automatic switch-on/switch-off and continuous regulation of DALI luminaires by a DALI sensor.

Auto ON/Auto OFF operation:

- A detection switches on the lighting and enables regulation (if there is sufficient natural light).
 - The luminaires switch on automatically and regulation is enabled when human presence is detected.
 - The luminaires will switch off automatically if there is sufficient natural light or after the room is vacated (+ end of sensor time delay).
 - A push-button is used to switch on and switch off DALI luminaires as well as for +/- dimming.
- Option of controlling another load to switch ON/OFF (which should be synchronised with control of the DALI luminaires).

3. WIRING DIAGRAM



NB:

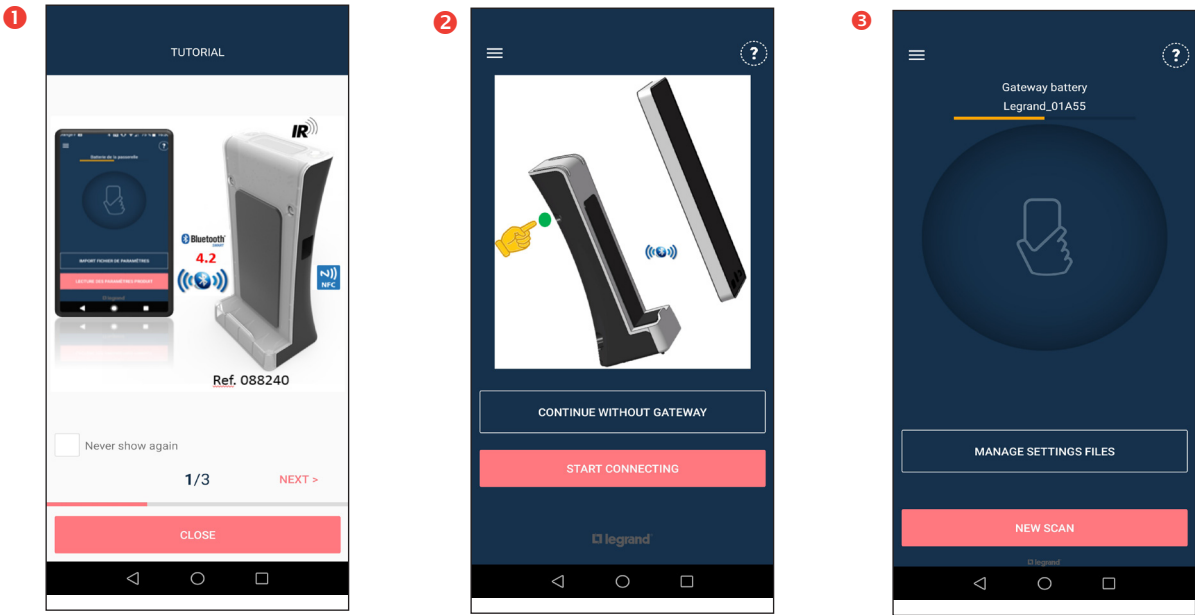
For more information about the product, refer to the documentation on our website



4. CONFIGURATION

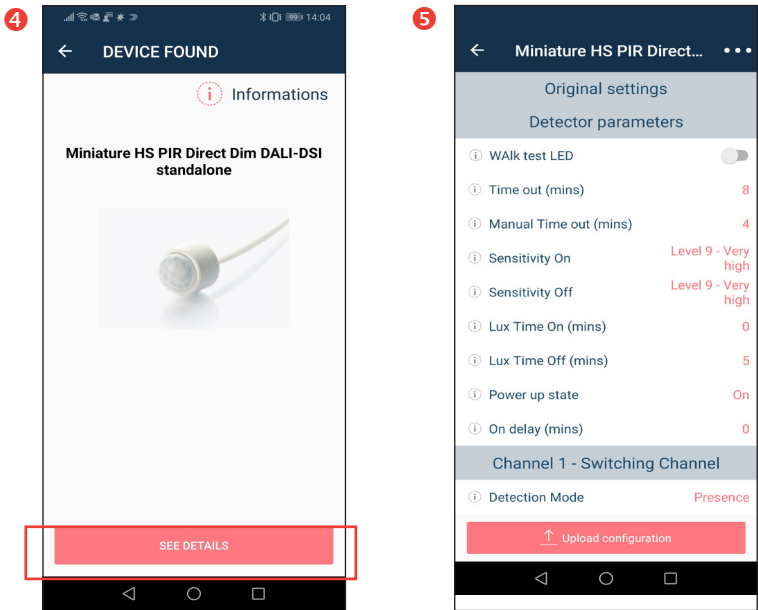
The sensors controlling the luminaires in dimming mode should be configured with **configuration gateway Cat. No. 0 882 40** and the **Legrand CloseUp app**. This operation is used to load the correct values for the parameters used in this use case.

■ 4-1 Connecting the gateway and interrogating the product



4. CONFIGURATION (CONTINUED)

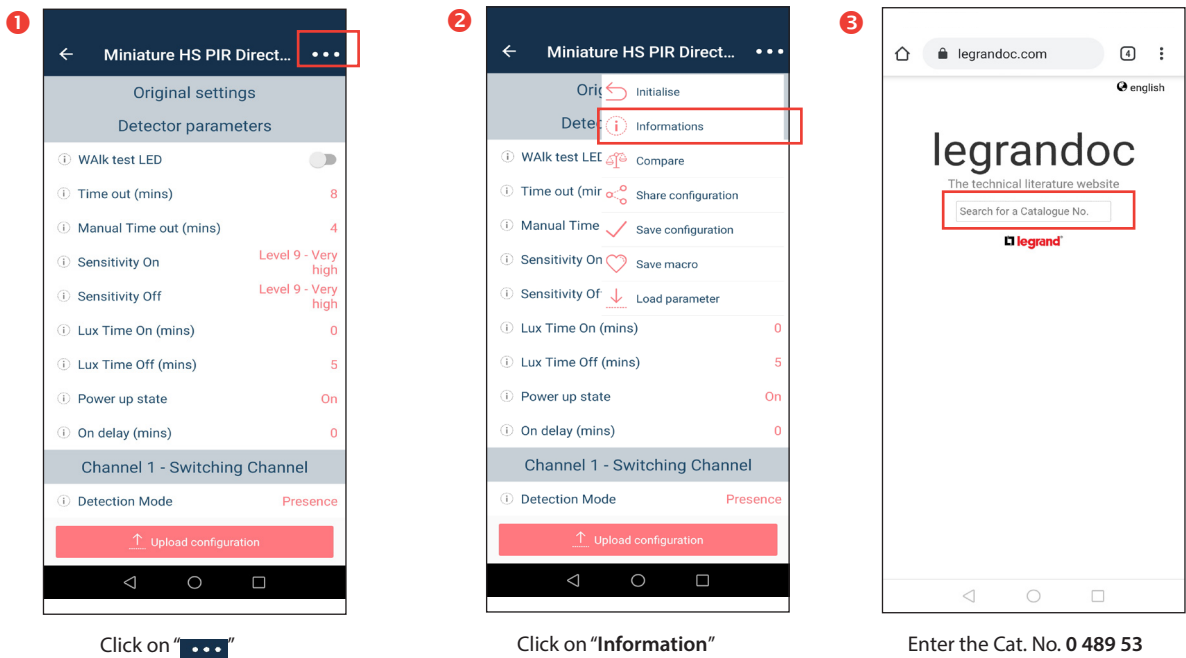
■ 4-1 Connecting the gateway and interrogating the product (continued)



After clicking on “**See details**” you can access the full list of parameters

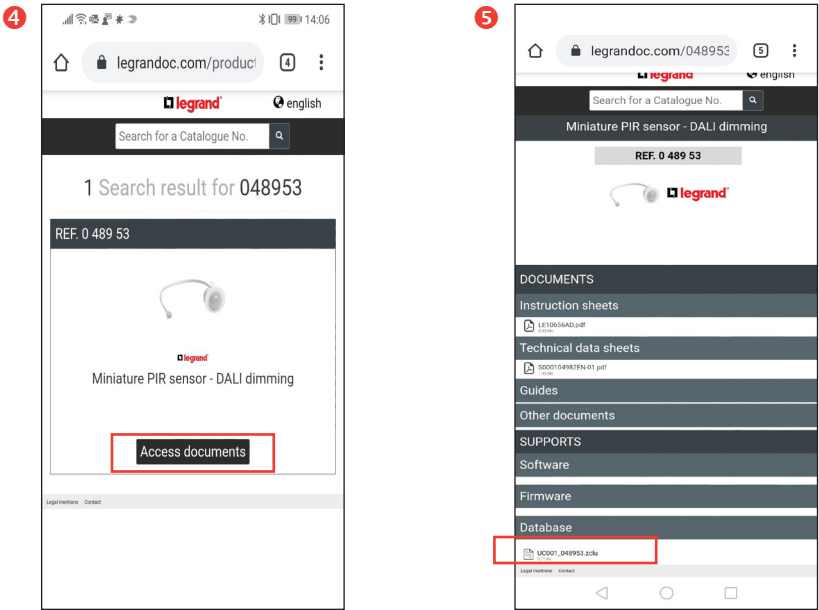
■ 4-2 Downloading the use case file

This step is used to download the use case file available on www.legrandoc.com



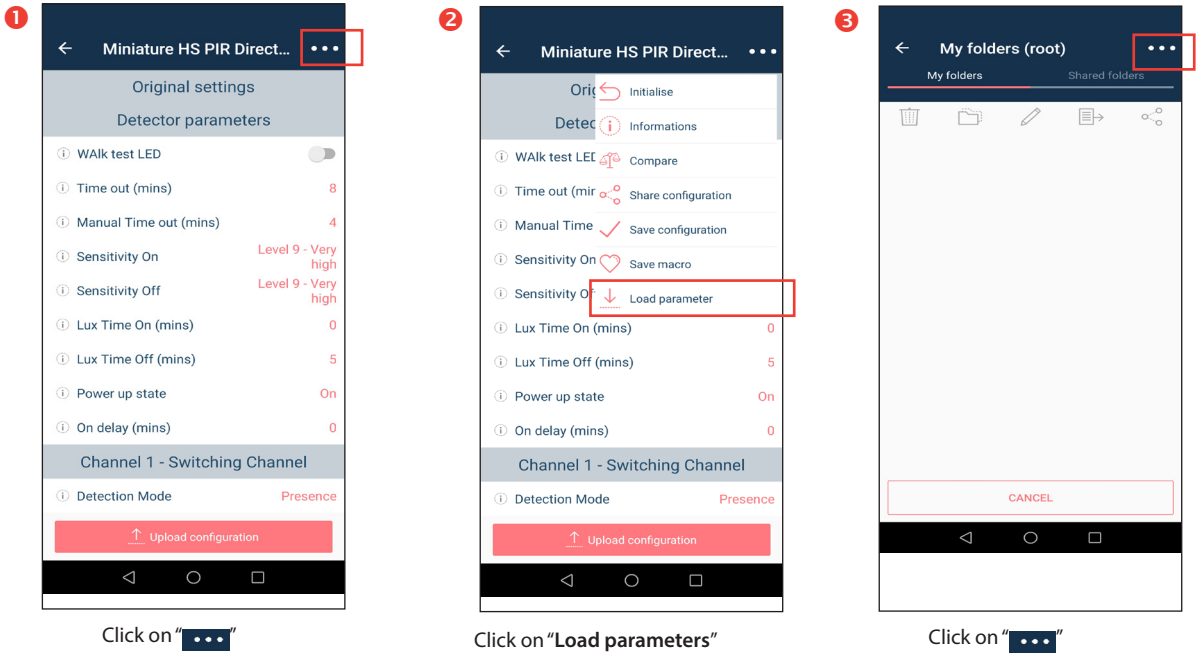
4. CONFIGURATION (CONTINUED)

■ 4-2 Downloading the use case file (continued)



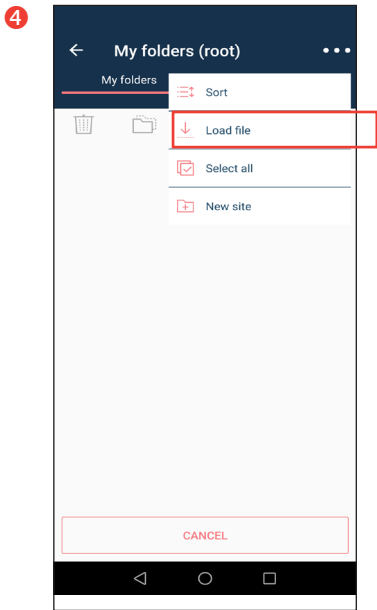
Click on "Access documents" then Database to download the file UC001_048953

■ 4-3 Import the file into CloseUp

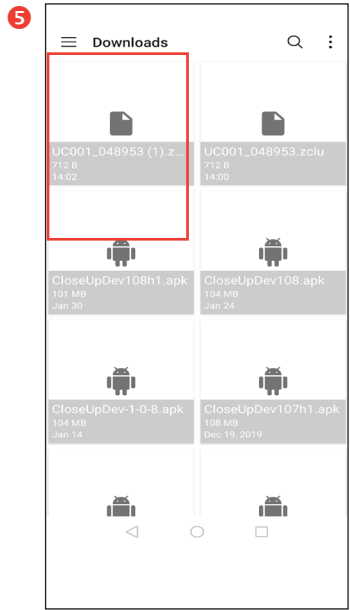


4. CONFIGURATION (CONTINUED)

■ 4-3 Import the file into CloseUp (continued)

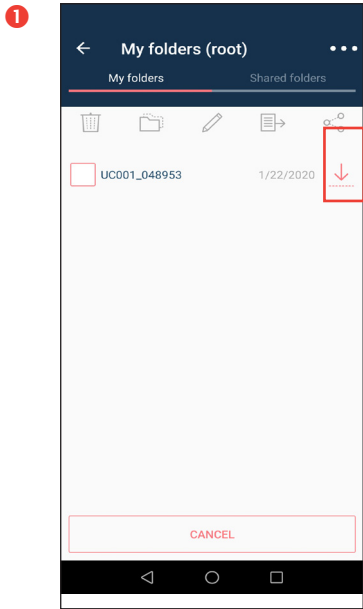


Click on "Load file"

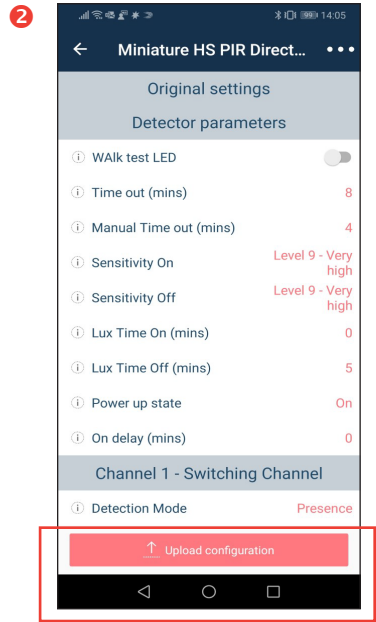


Select file UC001_048953.zclu downloaded from legrandoc.

■ 4-4 Import settings into the sensor



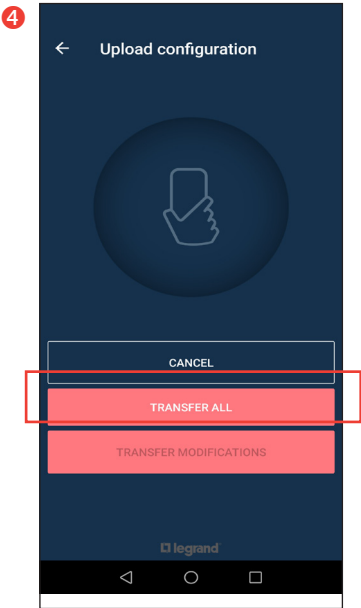
Click on the arrow to select the file to be imported



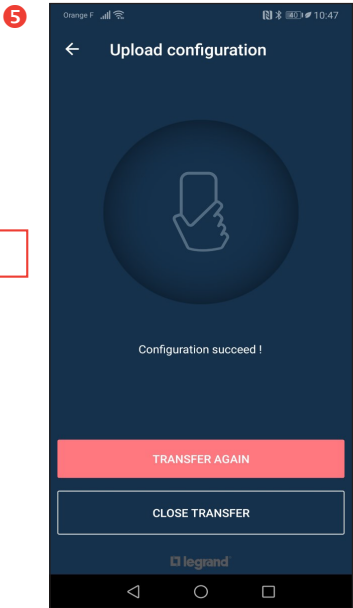
Click on "Write product settings"

4. CONFIGURATION (CONTINUED)

■ **4-4 Import settings into the sensor (continued)**



Aim at the sensor to confirm this action.



Select "WRITE ALL/PASTE" to import the settings

5. ADJUSTMENT OF LIGHTING REGULATION PARAMETERS

Settings predefined during initialization

Lux level for regulation	150
Lux On level	145
Lux Off level	225
OFF Lux time	5

■ 5-1 If the light level is often too low

Increase and adjust the value of the "Lux level for regulation" from 150 up to 200.

Adjust the value of the following parameters:

Lux On Level = Lux level for regulation -5

Lux Off Level = Lux level for regulation x 1.5

Example:

Lux level for regulation	180
Lux On level	175
Lux Off level	270
OFF Lux time	5

■ 5-2 If the lighting loads never switch off (minimal lighting)

Option 1

Reduce and adjust the value of the "OFF Lux time" parameter; this value must be greater than or equal to 1

Example:

Lux level for regulation	150
Lux On level	145
Lux Off level	225
OFF Lux time	4

Option 2

Reduce and adjust the value of the "Lux Off level" parameter" in steps of 10 or 20

Lux level for regulation	150
Lux On level	145
Lux Off level	215
OFF Lux time	5

■ 5-3 If the light level is often too high

Reduce and adjust the value of the "Lux level for regulation" parameter

Adjust the value of the following parameters:

Lux On level	Lux level for regulation -5
Lux Off level	Lux level for regulation x 1.5

Example:

Lux level for regulation	130
Lux On level	125
Lux Off level	195
OFF Lux time	5

6. MONITORING OF DALI FRAMES

■ 6-1 Detection, switch on at 100% and regulation (opens the blinds)

60	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	10:12:16.412	23.01.2020
61	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	10:12:16.912	23.01.2020
62	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:12:17.410	23.01.2020
63	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:12:17.913	23.01.2020
64	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:12:18.411	23.01.2020
65	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:12:18.913	23.01.2020
66	DAP	FEFD	Bcast	DIRECT ARC POWER (DAPC) 253 (97 %)	10:12:19.914	23.01.2020
67	DAP	FEFC	Bcast	DIRECT ARC POWER (DAPC) 252 (95 %)	10:12:20.415	23.01.2020
68	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:12:20.915	23.01.2020
69	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 250 (90 %)	10:12:21.416	23.01.2020
70	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 250 (90 %)	10:12:23.410	23.01.2020
71	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 250 (90 %)	10:12:25.404	23.01.2020

■ 6-2 Detection, switch on at 100% and regulation (opens the blinds) with adjustment of regulation parameters (see example 5.3)

1	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	10:22:16.133	23.01.2020
2	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	10:22:18.055	23.01.2020
3	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:22:19.076	23.01.2020
4	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:22:19.558	23.01.2020
5	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:22:20.055	23.01.2020
6	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	10:22:20.557	23.01.2020
7	DAP	FEFD	Bcast	DIRECT ARC POWER (DAPC) 253 (97 %)	10:22:21.556	23.01.2020
8	DAP	FEFC	Bcast	DIRECT ARC POWER (DAPC) 252 (95 %)	10:22:22.060	23.01.2020
9	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:22:22.558	23.01.2020
10	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:22:24.552	23.01.2020
11	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:22:26.546	23.01.2020
12	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:22:28.539	23.01.2020
13	DAP	FEFB	Bcast	DIRECT ARC POWER (DAPC) 251 (92 %)	10:22:30.535	23.01.2020
14	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 250 (90 %)	10:22:32.064	23.01.2020
15	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:32.565	23.01.2020
16	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:34.558	23.01.2020
17	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:36.549	23.01.2020
18	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:38.546	23.01.2020
19	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:40.539	23.01.2020
20	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	10:22:42.536	23.01.2020
21	DAP	FEF8	Bcast	DIRECT ARC POWER (DAPC) 248 (85 %)	10:22:44.069	23.01.2020
22	DAP	FEF8	Bcast	DIRECT ARC POWER (DAPC) 248 (85 %)	10:22:46.067	23.01.2020
23	DAP	FEF7	Bcast	DIRECT ARC POWER (DAPC) 247 (83 %)	10:22:46.575	23.01.2020
24	DAP	FEF7	Bcast	DIRECT ARC POWER (DAPC) 247 (83 %)	10:22:48.567	23.01.2020
25	DAP	FEF7	Bcast	DIRECT ARC POWER (DAPC) 247 (83 %)	10:22:50.560	23.01.2020
26	DAP	FEF6	Bcast	DIRECT ARC POWER (DAPC) 246 (80 %)	10:22:51.577	23.01.2020
27	DAP	FEF5	Bcast	DIRECT ARC POWER (DAPC) 245 (78 %)	10:22:52.077	23.01.2020
28	DAP	FEF4	Bcast	DIRECT ARC POWER (DAPC) 244 (76 %)	10:22:52.578	23.01.2020
29	DAP	FEF4	Bcast	DIRECT ARC POWER (DAPC) 244 (76 %)	10:22:54.570	23.01.2020
30	DAP	FEF4	Bcast	DIRECT ARC POWER (DAPC) 244 (76 %)	10:22:56.563	23.01.2020
31	DAP	FEF3	Bcast	DIRECT ARC POWER (DAPC) 243 (74 %)	10:22:58.080	23.01.2020
32	DAP	FEF2	Bcast	DIRECT ARC POWER (DAPC) 242 (72 %)	10:22:58.581	23.01.2020
33	DAP	FEF1	Bcast	DIRECT ARC POWER (DAPC) 241 (70 %)	10:22:59.081	23.01.2020
34	DAP	FEF0	Bcast	DIRECT ARC POWER (DAPC) 240 (68 %)	10:22:59.581	23.01.2020
35	DAP	FEF0	Bcast	DIRECT ARC POWER (DAPC) 240 (68 %)	10:23:01.576	23.01.2020
36	DAP	FEF0	Bcast	DIRECT ARC POWER (DAPC) 240 (68 %)	10:23:03.569	23.01.2020
37	DAP	FEF0	Bcast	DIRECT ARC POWER (DAPC) 240 (68 %)	10:23:05.563	23.01.2020

6. MONITORING OF DALI FRAMES (CONTINUED)

■ 6-3 ON via push-button, ↓ dimming, OFF

1	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	09:53:14.420	23.01.2020
2	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	09:53:15.099	23.01.2020
3	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:53:16.122	23.01.2020
4	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:53:16.603	23.01.2020
5	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:53:17.100	23.01.2020
6	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:53:17.602	23.01.2020
7	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:53:19.597	23.01.2020
8	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	09:53:20.004	23.01.2020
9	DAP	FEF4	Bcast	DIRECT ARC POWER (DAPC) 244 (76 %)	09:53:20.104	23.01.2020
10	DAP	FEFF	Bcast	DIRECT ARC POWER (DAPC) 239 (66 %)	09:53:20.203	23.01.2020
11	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 234 (58 %)	09:53:20.302	23.01.2020
12	DAP	FEE5	Bcast	DIRECT ARC POWER (DAPC) 229 (51 %)	09:53:20.404	23.01.2020
13	DAP	FEE0	Bcast	DIRECT ARC POWER (DAPC) 224 (44 %)	09:53:20.501	23.01.2020
14	DAP	FEDB	Bcast	DIRECT ARC POWER (DAPC) 219 (38 %)	09:53:20.602	23.01.2020
15	DAP	FED6	Bcast	DIRECT ARC POWER (DAPC) 214 (34 %)	09:53:20.702	23.01.2020
16	DAP	FED1	Bcast	DIRECT ARC POWER (DAPC) 209 (29 %)	09:53:20.805	23.01.2020
17	DAP	FECC	Bcast	DIRECT ARC POWER (DAPC) 204 (26 %)	09:53:20.903	23.01.2020
18	DAP	FEC7	Bcast	DIRECT ARC POWER (DAPC) 199 (22 %)	09:53:21.005	23.01.2020
19	DAP	FEC2	Bcast	DIRECT ARC POWER (DAPC) 194 (19 %)	09:53:21.102	23.01.2020
20	DAP	FEBD	Bcast	DIRECT ARC POWER (DAPC) 189 (17 %)	09:53:21.205	23.01.2020
21	DAP	FEB8	Bcast	DIRECT ARC POWER (DAPC) 184 (15 %)	09:53:21.305	23.01.2020
22	DAP	FEB3	Bcast	DIRECT ARC POWER (DAPC) 179 (13 %)	09:53:21.405	23.01.2020
23	DAP	FEAE	Bcast	DIRECT ARC POWER (DAPC) 174 (11 %)	09:53:21.505	23.01.2020
24	DAP	FEA9	Bcast	DIRECT ARC POWER (DAPC) 169 (9.8 %)	09:53:21.602	23.01.2020
25	DAP	FEA4	Bcast	DIRECT ARC POWER (DAPC) 164 (8.6 %)	09:53:21.704	23.01.2020
26	DAP	FE9F	Bcast	DIRECT ARC POWER (DAPC) 159 (7.5 %)	09:53:21.802	23.01.2020
27	DAP	FE9A	Bcast	DIRECT ARC POWER (DAPC) 154 (6.5 %)	09:53:21.903	23.01.2020
28	DAP	FE95	Bcast	DIRECT ARC POWER (DAPC) 149 (5.7 %)	09:53:22.003	23.01.2020
29	DAP	FE90	Bcast	DIRECT ARC POWER (DAPC) 144 (5.0 %)	09:53:22.105	23.01.2020
30	DAP	FE8B	Bcast	DIRECT ARC POWER (DAPC) 139 (4.3 %)	09:53:22.203	23.01.2020
31	DAP	FE86	Bcast	DIRECT ARC POWER (DAPC) 134 (3.8 %)	09:53:22.305	23.01.2020
32	DAP	FE81	Bcast	DIRECT ARC POWER (DAPC) 129 (3.3 %)	09:53:22.405	23.01.2020
33	DAP	FE81	Bcast	DIRECT ARC POWER (DAPC) 129 (3.3 %)	09:53:23.507	23.01.2020
34	DAP	FE00	Bcast	DIRECT ARC POWER (DAPC) 0 (OFF)	09:53:23.560	23.01.2020

■ 6-4 ↓ dimming via push-button

1	DAP	FE95	Bcast	DIRECT ARC POWER (DAPC) 149 (5.7 %)	09:51:56.045	23.01.2020
2	DAP	FE9A	Bcast	DIRECT ARC POWER (DAPC) 154 (6.5 %)	09:51:57.861	23.01.2020
3	DAP	FE9F	Bcast	DIRECT ARC POWER (DAPC) 159 (7.5 %)	09:51:57.961	23.01.2020
4	DAP	FEA4	Bcast	DIRECT ARC POWER (DAPC) 164 (8.6 %)	09:51:58.058	23.01.2020
5	DAP	FEA9	Bcast	DIRECT ARC POWER (DAPC) 169 (9.8 %)	09:51:58.162	23.01.2020
6	DAP	FEAE	Bcast	DIRECT ARC POWER (DAPC) 174 (11 %)	09:51:58.258	23.01.2020
7	DAP	FEB3	Bcast	DIRECT ARC POWER (DAPC) 179 (13 %)	09:51:58.361	23.01.2020
8	DAP	FEB8	Bcast	DIRECT ARC POWER (DAPC) 184 (15 %)	09:51:58.462	23.01.2020
9	DAP	FEBD	Bcast	DIRECT ARC POWER (DAPC) 189 (17 %)	09:51:58.563	23.01.2020
10	DAP	FEC2	Bcast	DIRECT ARC POWER (DAPC) 194 (19 %)	09:51:58.662	23.01.2020
11	DAP	FEC7	Bcast	DIRECT ARC POWER (DAPC) 199 (22 %)	09:51:58.762	23.01.2020
12	DAP	FECC	Bcast	DIRECT ARC POWER (DAPC) 204 (26 %)	09:51:58.862	23.01.2020
13	DAP	FED1	Bcast	DIRECT ARC POWER (DAPC) 209 (29 %)	09:51:58.961	23.01.2020
14	DAP	FED6	Bcast	DIRECT ARC POWER (DAPC) 214 (34 %)	09:51:59.061	23.01.2020
15	DAP	FEDB	Bcast	DIRECT ARC POWER (DAPC) 219 (38 %)	09:51:59.162	23.01.2020
16	DAP	FEE0	Bcast	DIRECT ARC POWER (DAPC) 224 (44 %)	09:51:59.263	23.01.2020
17	DAP	FEE5	Bcast	DIRECT ARC POWER (DAPC) 229 (51 %)	09:51:59.363	23.01.2020
18	DAP	FEFA	Bcast	DIRECT ARC POWER (DAPC) 234 (58 %)	09:51:59.462	23.01.2020
19	DAP	FEFF	Bcast	DIRECT ARC POWER (DAPC) 239 (66 %)	09:51:59.562	23.01.2020
20	DAP	FEF4	Bcast	DIRECT ARC POWER (DAPC) 244 (76 %)	09:51:59.659	23.01.2020
21	DAP	FEF9	Bcast	DIRECT ARC POWER (DAPC) 249 (87 %)	09:51:59.762	23.01.2020
22	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:51:59.863	23.01.2020
23	DAP	FEFE	Bcast	DIRECT ARC POWER (DAPC) 254 (100 %)	09:51:59.963	23.01.2020