deStellys

USER MANUAL

LUMA • MARIS • ASTRA

Self-Contained LED Marine Lanterns



LUMA



MARIS



ASTRA

This user manual provides essential information for the safe installation, programming, operation, and maintenance of the LUMA, MARIS, and ASTRA self-contained LED marine lanterns.

IALA E-200-1
Compliant

Infrared
Programming

Solar
Powered

IP68
Protection

IMPORTANT NOTICE

- Charge the lantern fully before first use.
- Keep the unit switched off during long-term storage.
- Read the programming instructions carefully before commissioning the lantern.
- Follow local regulations and navigation standards.

1. Scope and applicable models

This manual applies to deStellys LUMA, MARIS and ASTRA marine LED lanterns. It covers handling, installation, commissioning, infrared remote programming, flash-character selection, storage, troubleshooting and routine maintenance.

The instructions are common to the product family. Product-specific values such as battery capacity, solar-panel output, mounting pattern, range and dimensions must be checked on the latest product datasheet before installation.

Item	Description
Brand	deStellys
Products covered	LUMA, MARIS and ASTRA
Primary use	Marine aids to navigation: buoys, beacons, harbour structures and fixed marks
Programming	Infrared remote controller with 360+ / 366 flash characters

2. Model overview

Model	Nominal positioning	Main characteristics
LUMA	Compact short-range marine lantern	1-2+ NM class, compact solar lantern, IP68, 360 degrees horizontal coverage, IR programming, available in IALA signal colours.
MARIS	Standard self-contained solar marine lantern	4-5 NM class, integrated solar power, standard/extended battery configurations, IP68, IR programming and optional GPS synchronization.
ASTRA	High-performance solar marine lantern	Extended-range product family for demanding environments, larger solar and battery capacity, IP68, GPS synchronization and IR programming.

3. Safety and handling instructions

- Installation and maintenance must be carried out by qualified personnel only.
- Do not open sealed optical, electronic or battery compartments unless authorized by deStellys technical support.
- Avoid impacts on the lens, solar panel and housing. Do not use abrasive products or solvents.
- Use stainless-steel fasteners suitable for marine environments. Tighten according to the installation structure and project requirements.
- Do not short-circuit battery terminals. Keep battery disconnect/storage protection in place when supplied.
- Use appropriate PPE for installation on buoys, towers, pontoons, harbour structures or vessels.

Solar charging before use

For solar versions, expose the lantern to direct sunlight for 3-5 days before installation and after long-term storage of 3 months or more. Keep the lantern in the OFF/storage position during preparation unless otherwise specified.

4. Infrared remote controller

The infrared controller is used to switch the lantern remotely, select the flashing character and confirm settings. The control distance is up to 10 meters with no obstacles between the controller and the lantern.



Parameter	Value
Control distance	Up to 10 meters with no obstacle between the controller and the lantern
Dimensions	40 x 90 x 9 mm
Functions	Remote ON/OFF control, quick return to steady mode, adjustment of up to 366 flashing characters

5. Programming environment

- Carry out programming in a very dark environment so that the photocell operates in night mode.
- If needed, simulate darkness by fully covering the solar panel or light sensor with an opaque cover.
- Keep the distance between the lantern and the remote controller below 10 meters.
- Remove any obstacle between the remote controller and the lantern.
- Multiple lanterns may be programmed simultaneously when they are within range and in night mode.

6. Switching ON/OFF and storage

Action	Instruction
Mechanical switch	Use the physical ON/OFF switch according to commissioning and storage requirements.
Remote OFF	Press the red OFF button on the infrared controller to switch the lantern off remotely.
Remote ON	Press the green ON button on the infrared controller to switch the lantern on remotely.
Storage	Set the mechanical ON/OFF switch to OFF. Reinsert the battery disconnect board or storage protection when supplied.

7. Flash-character programming procedure

Step	Procedure
Step 1 - Power on	Press the green power button on the remote controller to turn ON the lantern.
Step 2 - Enter programming mode	Press the MODE/programming button. The lantern flashes rapidly, indicating that it is ready to receive a command.
Step 3 - Enter the setting number	Within one minute, press the number keys corresponding to the required working mode setting number. If no input is made, the lantern returns to normal operation.
Step 4 - Confirm	Press OK to validate the selection. The lantern stops flashing rapidly and switches to the selected flash character.

Correction: if an incorrect number is entered, press the return key and repeat the procedure from Step 2.

Programming example
To set flash code 12 - Q1S (0.5 + 0.5), enter working mode setting number 12: ON -> MODE -> 1 -> 2 -> OK.

8. Flash-character abbreviations

Code	Meaning
F	Fixed light
FL	Flash followed by period. Example: FL1.2S means one flash every 1.2 seconds.
Q	Quick flash
VQ	Very quick flash
OC	Occulting: ON period is longer than OFF period.
ISO	Isophase: equal ON and OFF periods.
LFL	Long flash
MO	Morse-code character. The letter is shown in brackets, for example MO(O).

9. Installation checklist

- Confirm the lantern model, colour, flash character and nominal range required for the mark.
- Verify that the battery is charged and that the solar panel and lens are clean.
- Check that the mounting surface is flat, rigid and compatible with the lantern mounting pattern.
- Install the lantern vertically with the lens unobstructed through 360 degrees unless a sector configuration is specified.
- Verify the programmed flash character at night or in a controlled dark environment.

10. Maintenance and storage

Operation	Recommendation
Routine cleaning	Clean the lens and solar panel with fresh water and a soft cloth.
Visual inspection	Check the lens, housing, seals, fasteners, solar panel and mounting structure.
Battery care	Recharge the lantern before installation and after extended storage. Follow model-specific battery instructions.
Storage	Store in a dry, ventilated area away from direct heat. Keep the switch OFF and use storage protection if supplied.
Service	Contact deStellys for spare parts, battery replacement, optical repair or sealed component intervention.

11. Troubleshooting

Symptom	Checks / corrective actions
Lantern does not switch on	Check charge level, mechanical switch, battery disconnect board, storage protection and remote-control environment.
Remote controller has no effect	Operate in darkness, stay within 10 m, remove obstacles, check controller battery and aim toward the lantern.
Wrong flash character	Repeat programming from Step 2 and confirm the setting number from the flash table.
Low autonomy	Clean the solar panel, check shading at the site, recharge fully and verify battery condition.
Water ingress or physical damage	Stop use and contact deStellys technical support. Do not open sealed parts unless authorized.

Appendix A - Working mode setting table

Factory setting: Number 32 - FL3S (0.2 + 2.8). All timings are in seconds. The following pages reproduce the full working mode setting table used for LUMA, MARIS and ASTRA programming.

Working Mode Number	Flash Code	ON (Second)	OFF (Second)
1	F(Steady mode)		
2	Q0.5S	0.25	0.25
3	VQ0.5S	0.15	0.35
4	VQ0.5S	0.2	0.3
5	VQ0.5S	0.25	0.25
6	VQ0.6S	0.2	0.4
7	VQ0.6S	0.3	0.3
8	VQ0.75S	0.5	0.25
9	Q1S	0.2	0.8
10	Q1S	0.3	0.7
11	Q1S	0.4	0.6
12	Q1S	0.5	0.5
13	Q1S	0.8	0.2
14	Q1.2S	0.3	0.9
15	Q1.2S	0.5	0.7
16	Q1.2S	0.6	0.6
17	FL1.2S	0.4	0.8
18	FL1.5S	0.2	1.3
19	FL1.5S	0.3	1.2
20	FL1.5S	0.4	1.1
21	FL1.5S	0.5	1.0
22	FL2S	0.2	1.8
23	FL2S	0.3	1.7
24	FL2S	0.4	1.6
25	FL2S	0.5	1.5
26	FL2S	0.7	1.3
27	FL2S	0.8	1.2
28	ISO2S	1.0	1.0
29	FL2.5S	0.3	2.2
30	FL2.5S	0.5	2.0
31	FL2.5S	1.0	1.5
32	FL3S	0.2	2.8
33	FL3S	0.3	2.7
34	FL3S	0.4	2.6
35	FL3S	0.5	2.5
36	FL3S	0.6	2.4
37	FL3S	0.7	2.3
38	FL3S	1.0	2.0
39	OC3S	2.0	1.0
40	OC3S	2.5	0.5

Working Mode Number	Flash Code	ON (Second)	OFF (Second)
41	OC3.5S	2.5	1.0
42	ISO3S	1.5	1.5
43	FL4S	0.2	3.8
44	FL4S	0.3	3.7
45	FL4S	0.4	3.6
46	FL4S	0.5	3.5
47	FL4S	0.6	3.4
48	FL4S	0.8	3.2
49	FL4S	1.0	3.0
50	FL4S	1.5	2.5
51	OC4S	2.5	1.5
52	OC4S	3.0	1.0
53	ISO4S	2.0	2.0
54	FL4.3S	1.3	3.0
55	FL5S	0.2	4.8
56	FL5S	0.3	4.7
57	FL5S	0.4	4.6
58	FL5S	0.5	4.5
59	FL5S	0.9	4.1
60	FL5S	1.0	4.0
61	FL5S	1.5	3.5
62	LFL5S	2.0	3.0
63	OC5S	3.0	2.0
64	OC5S	4.0	1.0
65	OC5S	4.5	0.5
66	ISO5S	2.5	2.5
67	FL6S	0.2	5.8
68	FL6S	0.3	5.7
69	FL6S	0.4	5.6
70	FL6S	0.5	5.5
71	FL6S	0.6	5.4
72	FL6S	0.8	5.2
73	FL6S	1.0	5.0
74	FL6S	1.2	4.8
75	FL6S	1.5	4.5
76	LFL6S	2.0	4.0
77	OC6S	4.5	1.5
78	OC6S	4.0	2.0
79	OC6S	5.0	1.0
80	ISO6S	3.0	3.0

Working Mode Number	Flash Code	ON (Second)	OFF (Second)
81	FL7S	0.4	6.6
82	FL7S	1.0	6.0
83	FL7S	2.0	5.0
84	OC7S	4.5	2.5
85	FL7.5S	0.5	7.0
86	FL7.5S	0.8	6.7
87	FL8S	0.5	7.5
88	FL8S	1.0	7.0
89	LFL8S	2.0	6.0
90	LFL8S	3.0	5.0
91	OC8S	6.0	2.0
92	OC8S	5.0	3.0
93	ISO8S	4.0	4.0
94	FL9S	0.9	8.1
95	FL9S	1.0	8.0
96	OC9S	6.0	3.0
97	FL10S	0.2	9.8
98	FL10S	0.3	9.7
99	FL10S	0.4	9.6
100	FL10S	0.5	9.5
101	FL10S	0.8	9.2
102	FL10S	1.0	9.0
103	FL10S	1.5	8.5
104	LFL10S	2.0	8.0
105	LFL10S	3.0	7.0
106	LFL10S	4.0	6.0
107	OC10S	7.0	3.0
108	OC10S	7.5	2.5
109	OC10S	6.0	4.0
110	ISO10S	5.0	5.0
111	FL11S	1.0	10.0
112	FL12S	1.0	11.0
113	FL12S	1.2	10.8
114	FL12S	2.5	9.5
115	LFL12S	2.0	10.0
116	FL15S	1.0	14.0
117	LFL15S	4.0	11.0
118	OC15S	10.0	5.0
119	LFL20S	2.0	18.0
120	FL26S	1.0	25.0
121	FL30S	1.0	29.0

Working Mode Number	Flash Code	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)
122	FL(2)4S	0.5	1.0	0.5	2.0
123	VQ(2)4S	0.2	1.0	0.2	2.6
124	FL(2)4.5S	0.3	1.0	0.3	2.9
125	FL(2)4.5S	0.4	1.0	0.4	2.7
126	FL(2)4.5S	0.5	1.0	0.5	2.5
127	FL(2)4.6S	0.3	0.3	0.3	3.7
128	FL(2)5S	0.2	1.2	0.2	3.4
129	FL(2)5S	0.3	1.0	0.3	3.4
130	FL(2)5S	0.4	0.6	0.4	3.6
131	FL(2)5S	0.4	1.1	0.4	3.1
132	FL(2)5S	0.5	0.5	0.5	3.5
133	FL(2)5S	0.5	0.7	0.5	3.3
134	FL(2)5S	0.5	1.0	0.5	3.0
135	FL(2)5S	1.0	1.0	1.0	2.0
136	Q(2)5S	0.3	0.7	0.3	3.7
137	Q(2)5S	0.5	0.5	0.5	3.5
138	FL(2)5.5S	0.4	1.4	0.4	3.3
139	FL(2)6S	0.3	0.6	1.0	4.1
140	FL(2)6S	0.3	0.9	0.3	4.5
141	FL(2)6S	0.3	1.0	0.3	4.4
142	FL(2)6S	0.4	1.0	0.4	4.2
143	FL(2)6S	0.4	1.2	0.4	4.0
144	FL(2)6S	0.5	0.5	0.5	4.5
145	FL(2)6S	0.5	1.0	0.5	4.0
146	FL(2)6S	0.8	0.8	0.8	3.6
147	FL(2)6S	0.8	1.2	0.8	3.2
148	FL(2)6S	1.0	1.0	1.0	3.0
149	Q(2)6S	0.3	0.7	0.3	4.7
150	LFL+FL6S	3.0	1.0	1.0	1.0
151	FL(2)6.5S	0.5	1.0	0.5	4.5
152	FL(2)7S	0.4	1.2	0.4	5.0
153	FL(2)7S	0.5	1.5	0.5	4.5
154	FL(2)7S	1.0	1.0	1.0	4.0
155	VQ(2)8S	0.2	1.0	0.2	6.6
156	FL(2)8S	0.4	0.6	2.0	5.0
157	FL(2)8S	0.4	1.0	0.4	6.2
158	FL(2)8S	0.4	1.7	0.4	5.5
159	FL(2)8S	0.5	0.5	1.5	5.5
160	FL(2)8S	0.5	1.0	0.5	6.0
161	FL(2)8S	0.8	1.2	2.4	3.6
162	FL(2)8S	1.0	1.0	1.0	5.0
163	OC(2)8S	5.0	1.0	1.0	1.0
164	OC(2)8S	3.0	2.0	1.0	2.0

Working Mode Number	Flash Code	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)
165	FL(2)9S	0.4	1.7	0.4	6.5
166	Q(2)10S	0.5	0.5	0.5	8.5
167	Q(2)10S	0.6	0.4	0.6	8.4
168	FL(2)10S	0.4	1.6	0.4	7.6
169	FL(2)10S	0.4	2.2	0.4	7.0
170	FL(2)10S	0.5	0.5	1.5	7.5
171	FL(2)10S	0.5	1.0	0.5	8.0
172	FL(2)10S	0.5	1.5	0.5	7.5
173	FL(2)10S	0.5	2.0	0.5	7.0
174	FL(2)10S	0.8	1.2	0.8	7.2
175	FL(2)10S	1.0	1.0	1.0	7.0
176	FL(2)10S	1.0	1.5	1.0	6.5
177	FL(2)12S	0.4	1.0	0.4	10.2
178	FL(2)12S	0.5	1.0	0.5	10.0
179	FL(2)12S	1.5	2.0	1.5	7.0
180	Q(2)15S	0.2	0.8	0.2	13.8
181	FL(2)15S	0.5	1.5	2.0	11.0
182	FL(2)15S	1.0	2.0	1.0	11.0
183	FL(2)20S	1.0	3.0	1.0	15.0
184	FL(2)25S	1.0	1.0	1.0	22.0

Working Mode Number	Flash Code	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)
185	VQ(3)5S	0.2	0.3	0.2	0.3	0.2	3.8
186	VQ(3)5S	0.25	0.25	0.25	0.25	0.25	3.75
187	VQ(3)5S	0.3	0.2	0.3	0.2	0.3	3.7
188	VQ(3)5S	0.3	0.3	0.3	0.3	0.3	3.5
189	Q(3)5S	0.5	0.5	0.5	0.5	0.5	2.5
190	Q(3)6S	0.3	0.7	0.3	0.7	0.3	3.7
191	FL(3)6S	0.4	0.8	0.4	0.8	0.4	3.2
192	FL(3)6S	0.4	1.2	0.4	1.2	0.4	2.4
193	FL(3)6S	0.5	0.5	0.5	0.5	0.5	3.5
194	FL(3)6S	0.5	1.0	0.5	1.0	0.5	2.5
195	FL(2+1)6S	0.3	0.4	0.3	1.2	0.3	3.5
196	FL(2+1)6S	0.5	0.5	0.5	1.0	0.5	3.0
197	FL(3)8S	0.5	1.0	0.5	1.0	0.5	4.5
198	FL(3)8S	1.5	0.5	0.5	0.5	0.5	4.5
199	Q(3)9S	0.5	0.5	0.5	1.0	0.5	6.0
200	FL(3)9S	0.3	1.0	0.3	1.0	0.3	6.1
201	FL(3)9S	0.5	1.5	0.5	1.5	0.5	4.5
202	FL(3)9S	0.8	1.2	0.8	1.2	0.8	4.2
203	FL(2+1)9S	0.5	0.5	0.5	1.5	0.5	5.5

Working Mode Number	Flash Code	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)	ON (Second)	OFF (Second)
204	Q(3)10S	0.3	0.7	0.3	0.7	0.3	7.7
205	Q(3)10S	0.5	0.5	0.5	0.5	0.5	7.5
206	Q(3)10S	0.6	0.6	0.6	0.6	0.6	7.0
207	FL(3)10S	0.3	0.7	0.3	0.7	0.9	7.1
208	FL(3)10S	0.35	0.65	0.35	0.65	0.35	7.65
209	FL(3)10S	0.4	0.6	0.4	0.6	1.2	6.8
210	FL(3)10S	0.4	0.8	0.4	0.8	0.4	7.2
211	FL(3)10S	0.5	0.5	0.5	0.5	0.5	7.5
212	FL(3)10S	0.5	1.0	0.5	1.0	0.5	6.5
213	FL(3)10S	0.5	1.5	0.5	1.5	0.5	5.5
214	FL(3)10S	0.6	0.6	0.6	0.6	0.6	7.0
215	FL(3)10S	0.9	1.1	0.9	1.1	0.9	5.1
216	FL(3)10S	1.0	1.0	1.0	1.0	1.0	5.0
217	FL(2+1)10S	0.5	0.5	0.5	0.5	1.5	6.5
218	FL(2+1)10S	0.5	0.7	0.5	2.1	0.5	5.7
219	FL(3)12S	0.4	2.1	0.4	2.1	0.4	6.6
220	FL(3)12S	0.5	1.5	0.5	1.5	0.5	7.5
221	FL(3)12S	0.5	2.0	0.5	2.0	0.5	6.5
222	FL(3)12S	0.8	1.2	0.8	1.2	0.8	7.2
223	FL(3)12S	1.0	1.0	1.0	3.0	1.0	5.0
224	FL(2+1)12S	0.8	1.2	0.8	2.4	0.8	6.0
225	FL(2+1)12S	1.0	1.0	1.0	2.0	1.0	6.0
226	FL(2+1)12S	1.0	1.0	1.0	4.0	1.0	4.0
227	FL(3)12.5S	0.5	1.0	0.5	1.0	0.5	9.0
228	LFL+FL(2)13S	6.0	1.0	2.0	1.0	2.0	1.0
229	FL(3)13S	0.4	2.1	0.4	2.1	0.4	7.6
230	FL(2+1)13.5S	1.0	1.0	1.0	4.0	1.0	5.5
231	FL(3)15.5S	0.5	1.0	1.5	3.0	0.5	9.0
232	VQ(3)15S	0.1	0.5	0.1	0.5	0.1	13.7
233	FL(3)15S	0.3	1.7	0.3	1.7	0.3	10.7
234	FL(3)15S	0.4	1.0	0.4	1.0	0.4	11.8
235	FL(3)15S	0.5	1.5	0.5	1.5	0.5	10.5
236	FL(3)15S	0.5	2.0	0.5	2.0	0.5	9.5
237	FL(3)15S	1.0	1.0	1.0	1.0	1.0	10.0
238	FL(2+1)15S	0.7	0.5	0.7	0.5	1.9	10.7
239	FL(2+1)15S	0.7	0.7	0.7	0.7	2.1	10.1
240	FL(2+1)15S	1.0	2.0	1.0	5.0	1.0	5.0
241	FL(2+1)15S	1.3	0.7	1.3	0.7	3.3	7.7
242	FL(2+1)15.75S	0.55	0.35	0.55	0.35	1.45	12.5
243	FL(2)+LFL16S	2.0	2.0	2.0	2.0	6.0	2.0
244	FL(3)20S	0.5	0.5	0.5	0.5	0.5	17.5
245	FL(3)20S	0.5	1.5	0.5	1.5	0.5	15.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
246	FL(3)20S	0.5	2.0	0.5	2.0	0.5	14.5
247	FL(3)20S	0.5	3.0	0.5	3.0	0.5	12.5
248	FL(3)20S	0.8	1.2	0.8	1.2	0.8	15.2
249	FL(3)20S	1.0	1.0	1.0	1.0	1.0	15.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
250	VQ(4)2S	0.10	0.13	0.10	0.13	0.10	0.13	0.10	1.21
251	VQ(4)4S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.9
252	Q(4)6S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	2.7
253	Q(4)6S	0.4	0.6	0.4	0.6	0.4	0.6	0.4	2.6
254	FL(4)7S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	3.7
255	Q(4)8S	1.2	0.4	0.4	0.4	0.4	0.4	1.2	3.6
256	FL(4)8S	0.4	0.4	1.2	0.4	1.2	0.4	0.4	3.6
257	FL(4)8S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.5
258	FL(1+3)8S	1.5	0.5	0.5	0.5	0.5	0.5	0.5	3.5
259	Q(4)10S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	6.7
260	FL(4)10S	0.5	1.0	0.5	1.0	0.5	1.0	0.5	5.0
261	FL(4)10S	0.8	1.2	0.8	1.2	0.8	1.2	0.8	3.2
262	FL(4)11S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	4.5
263	Q(4)12S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	8.7
264	FL(4)12S	0.3	1.7	0.3	1.7	0.3	1.7	0.3	5.7
265	FL(4)12S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	8.5
266	FL(4)12S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	5.5
267	FL(4)12S	0.8	1.2	0.8	1.2	0.8	1.2	0.6	5.2
268	Q(4)15S	0.35	0.7	0.35	0.7	0.35	0.7	0.35	11.5
269	FL(4)15S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	8.5
270	FL(4)15S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	8.0
271	FL(4)16S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	9.5
272	FL(3+1)18S	1.5	1.5	1.5	1.5	1.5	4.5	1.5	4.5
273	Q(4)19S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	15.7
274	Q(4)20S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	16.5
275	FL(4)20S	0.3	3.0	0.3	3.0	0.3	3.0	0.3	9.8
276	FL(4)20S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	13.5
277	FL(4)20S	0.5	1.5	0.5	1.5	0.5	4.5	0.5	10.5
278	FL(4)20S	0.5	2.0	0.5	2.0	0.5	2.0	0.5	12.0
279	FL(4)20S	1.5	1.5	1.5	1.5	1.5	1.5	1.5	9.5
280	Q(4)28S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	24.5
281	FL(4)30S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	26.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
282	Q(5)7S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	2.7
283	Q(5)9S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.5
284	Q(5)10S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	5.7
285	FL(5)12S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	3.5
286	FL(5)16S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	7.5
287	FL(5)20S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	15.5
288	FL(5)20S	0.8	1.2	0.8	1.2	0.8	1.2	0.8	1.2	0.8	11.2
289	FL(5)20S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	11.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
290	Q(6)10S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	4.7
291	FL(6)12S	0.25	1.25	0.25	1.25	0.25	1.25	0.25	1.25	0.25	1.25	0.25	4.25
292	FL(6)15S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	9.7
293	FL(6)15S	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	7.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
294	VQ(6)+LFL10S	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	2.0	5.0
295	VQ(6)+LFL10S	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.0	5.0
296	VQ(6)+LFL10S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0	4.4
297	VQ(6)+LFL15S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0	9.4
298	Q(6)+LFL15S	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	2.0	7.0
299	Q(6)+LFL15S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	2.0	7.0
300	Q(6)+LFL15S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.0	7.0
301	Q(6)+LFL15S	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.0	5.8
302	FL(6)+LFL15S	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	2.0	5.8
303	FL(6+1)15S	0.35	0.65	0.35	0.65	0.35	0.65	0.35	0.65	0.35	0.65	0.35	0.65	1.0	8.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
304	FL(3+5)12.2S	0.9	0.3	0.9	1.0	0.9	0.3	0.3	0.3	0.3	1.0	0.3	0.3	0.3	0.3	0.3	4.5

Working Mode Setting Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
305	VQ(9)10S	0.15	0.35	0.15	0.35	0.15	0.35	0.15	0.35	0.15	0.35	0.15	0.35	0.15	0.35	0.15	0.35	0.15	5.85
306	VQ(9)10S	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	5.8
307	VQ(9)10S	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	5.75
308	VQ(9)10S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.9
309	Q(9)15S	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	6.8
310	Q(9)15S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	6.7
311	Q(9)15S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.5
312	Q(9)15S	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	4.8
313	FL(9)32.92S	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	22.92
310	Q(9)15S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	6.7
311	Q(9)15S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.5
312	Q(9)15S	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	4.8
313	FL(9)32.92S	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	22.92

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
314	MO(O)12S	1.5	0.5	1.5	0.5	1.5	6.5
315	MO(O)15S	1.5	0.5	1.5	0.5	1.5	9.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)
316	MO(A)10S	0.5	0.5	1.5	7.5
317	MO(A)15S	0.5	1.5	2.0	11.0
318	MO(A)6S	0.5	0.5	1.5	3.5
319	MO(A)8S	0.4	0.6	2.0	5.0
320	MO(A)8S	0.8	1.2	2.4	3.6

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
321	MO(B)15S	1.5	0.5	0.5	0.5	0.5	0.5	0.5	10.5
322	MO(B)30S	2.5	1.0	0.75	1.0	0.75	1.0	0.75	22.25
323	MO(C)12S	1.5	0.5	0.5	0.5	1.5	0.5	0.5	6.5
324	MO(C)15S	1.5	0.5	0.5	0.5	1.5	0.5	0.5	9.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
325	MO(D)10S	0.3	1.0	0.3	1.0	0.3	7.1
326	MO(D)10S	5.0	1.0	1.0	1.0	1.0	1.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
327	MO(D)12S	0.5	0.5	0.5	0.5	1.5	0.5	0.5	7.5
328	MO(D)15S	0.5	0.5	0.5	0.5	1.5	0.5	0.5	10.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
329	MO(D)8S	1.2	0.4	0.4	0.4	0.4	5.2
330	MO(D)8S	1.5	0.5	0.5	0.5	0.5	4.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
331	MO(F)12S	0.5	0.5	0.5	0.5	1.5	0.5	0.5	7.5
332	MO(F)15S	0.5	0.5	0.5	0.5	1.5	0.5	0.5	10.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
333	MO(K)10S	1.5	0.5	0.5	0.5	1.5	5.5
334	MO(K)12S	1.5	0.5	0.5	0.5	1.5	7.5
335	MO(K)15S	1.5	0.5	0.5	0.5	1.5	10.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)
336	MO(M)8S	1.5	0.5	1.5	4.5
337	MO(N)6S	1.2	0.4	0.4	4.0
338	MO(N)6S	1.5	0.5	0.5	3.5
339	MO(N)8S	5.0	1.0	1.0	1.0

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
340	MO(P)10S	0.5	0.5	1.5	0.5	1.5	0.5	0.5	4.5
341	MO(P)12S	0.5	0.5	1.5	0.5	1.5	0.5	0.5	6.5
342	MO(P)15S	0.5	0.5	1.5	0.5	1.5	0.5	0.5	9.5
343	MO(P)8S	0.4	0.4	1.2	0.4	1.2	0.4	0.4	3.6
344	MO(Q)12S	1.5	0.5	1.5	0.5	0.5	0.5	1.5	5.5
345	MO(Q)15S	1.5	0.5	1.5	0.5	0.5	0.5	1.5	8.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
346	MO(R)8S	0.5	0.5	1.5	0.5	0.5	4.5
347	MO(U)10S	0.3	0.7	0.3	0.7	0.9	7.1
348	MO(U)10S	0.4	0.6	0.4	0.6	1.2	6.8
349	MO(U)10S	0.5	0.5	0.5	0.5	1.5	6.5
350	MO(U)12S	0.5	0.5	0.5	0.5	1.5	8.5
351	MO(U)15S	0.5	0.5	0.5	0.5	1.5	11.5
352	MO(U)15S	0.6	0.3	0.6	0.3	1.4	11.8
353	MO(U)15S	0.6	0.3	0.6	0.3	1.5	11.7
354	MO(U)15S	0.65	0.25	0.65	0.25	1.5	11.7
355	MO(U)15S	0.7	0.5	0.7	0.5	1.9	10.7
356	MO(U)15S	0.7	0.7	0.7	0.7	2.1	10.1
357	MO(U)15S	0.8	0.1	0.8	0.1	1.5	11.7
358	MO(U)30S	0.75	1.0	0.75	1.0	2.5	24

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
359	MO(V)8S	0.4	0.4	0.4	0.4	0.4	0.4	1.2	4.4
360	MO(V)8S	0.5	0.5	0.5	0.5	0.5	0.5	1.5	3.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
361	MO(W)10S	0.5	0.5	1.5	0.5	1.5	5.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
362	MO(X)8S	1.2	0.4	0.4	0.4	0.4	0.4	1.2	3.6
363	MO(Y)12S	1.5	0.5	0.5	0.5	1.5	0.5	1.5	5.5
364	MO(Y)15S	1.5	0.5	0.5	0.5	1.5	0.5	1.5	8.5
365	MO(Z)10S	1.5	0.5	1.5	0.5	0.5	0.5	0.5	4.5
366	MO(Z)12S	1.5	0.5	1.5	0.5	0.5	0.5	0.5	6.5

Working Mode Number	Flash Code	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)	ON (s)	OFF (s)
367	FL(5)20S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	11.5

Appendix B - Technical support

For technical support, spare parts, product configuration, flash-character confirmation or project-specific documentation, contact deStellys.

Contact	Details
Website	www.destellys.com
Email	info@destellys.com
Documentation	Use the latest datasheet for model-specific technical data.

The information in this manual may be updated without prior notice to improve product performance, safety or compliance. Always use the latest documentation supplied by deStellys for your installation.