

ORION LED luminaire is equipped with a TEST button, which is being used both for MT – manual test versions and AT – auto test versions. It enables to test emergency operation of the luminaire.

**Auto test function**

If a luminaire version has an auto test functionality, the TEST button is being used to initiate and break either function or autonomy tests, depending on time of pressing. Pressing the button for  $2s < t < 5s$  initiate the function test, for  $5s < t < 10s$  – initiate the autonomy test, while for  $t > 10s$  – breaks any currently running test.

In a standard luminaire operation, both functional and autonomy tests are being initialised automatically, function test every 30 days and autonomy test every 360 days.

All the possible luminaire working states and LED indications are gathered in the table below.

LUMINAIRE WORKING STATE OR ACTION	GREEN LED INDICATION	RED LED INDICATION	COMMENTS
<b>BASIC STATES</b>			
MAINS SUPPLY ON, BATTERY BEING TRICKLE CHARGED	ON	OFF	
MAINS SUPPLY ON, BATTERY BEING CHARGED	FLASHING (D)	OFF	
MAINS SUPPLY FAILURE, EMERGENCY OPERATION	OFF	OFF	
<b>FUNCTIONAL TEST STATES</b>			
FUNCTIONAL TEST BEING INITIATED	FLASHING (1/T)	OFF	
ELECTRONIC CIRCUIT OR CHARGING CIRCUIT FAILURE	OFF	FLASHING (1/T)	
LIGHT SOURCE FAILURE	OFF	FLASHING (2/T)	
LUMINAIRE (ELECTRONICS, BATTERY, LIGHT SOURCE) – OK	ON	OFF	
<b>AUTONOMY TEST STATES</b>			
AUTONOMY TEST BEING INITIATED	FLASHING (1/T, A)	FLASHING (1/T, A)	ALTERNATE FLASHING
BATTERY CHARGING CIRCUIT FAILURE	OFF	FLASHING (1/T)	
WEAK BATTERY, AUTONOMY TIME SHORTER THAN DEFINED	FLASHING (D)	FLASHING (3/T)	PARALLEL FLASHING
BATTERY, CHARGING CIRCUIT AND AUTONOMY – OK	ON	OFF	
<b>MANUAL TEST BUTTON FUNCTIONS</b>			
INITIATION OF A FUNCTIONAL TEST – PRESSING A BUTTON FOR A $2s < t < 5s$	FLASHING (1/T)	OFF	
INITIATION OF AN AUTONOMY TEST – PRESSING A BUTTON FOR A $5s < t < 10s$	FLASHING (1/T, A)	FLASHING (1/T, A)	ALTERNATE FLASHING
BREAKING ANY RUNNING TEST OR TEST RESULTS RESETTING FOR $t > 10s$			
<b>OTHER FUNCTIONS</b>			
INHIBIT OR REST MODE ACTIVATED	FLASHING (3/T)	OFF	

Legend:

T – 2s period; t – time of pressing the test button

FLASHING: (1/T) / (2/T) / (3/T) – 1 flash / 2 flashes / 3 flashes every 2s period

FLASHING (A): alternate flashing of two LEDs – with a  $\frac{1}{2} T$  shift between them

FLASHING (D): number of flashes depending on battery charge status:  $1/T \geq 25\%$ ,  $2/T \geq 50\%$ ,  $3/T \geq 75\%$ , ON  $\geq 90\%$  (here ON means the green LED is continually lighting, the battery is being trickle charged).