

RUUD LED – MULTI-LEVEL OPTION (G)



Light bar	Nominal Power (W)	System watt (VA)	Low mode				Medium mode				High mode			
			System watt (VA)	Power (W)	Nominal flux	% flux	System watt (VA)	Power (W)	Nominal flux	% flux	System watt (VA)	Power (W)	Nominal flux	% flux
1	20	27,3	14	13	1200,00	60%	27,3	24,57	2000	100%	42,7	38,43	2600,00	130%
2	40	55	27,5	26,3	2400,00	60%	55	49,5	4000	100%	86,2	77,58	5200,00	130%
3	60	79,4	39,5	37,9	3600,00	60%	79,4	71,46	6000	100%	124,4	111,96	7800,00	130%
4	80	104,1	52	49,7	4800,00	60%	104,1	93,69	8000	100%	163,2	146,88	10400,00	130%
5	100	128,8	64	61,5	6000,00	60%	128,8	115,92	10000	100%	201,9	181,71	13000,00	130%
6	120	153,8	76,5	73,4	7200,00	60%	153,8	138,42	12000	100%	241	216,9	15600,00	130%

Ruud LED product equipped with G option (Multi-level option) allows multiple operating drive current (Low, Medium and High mode).

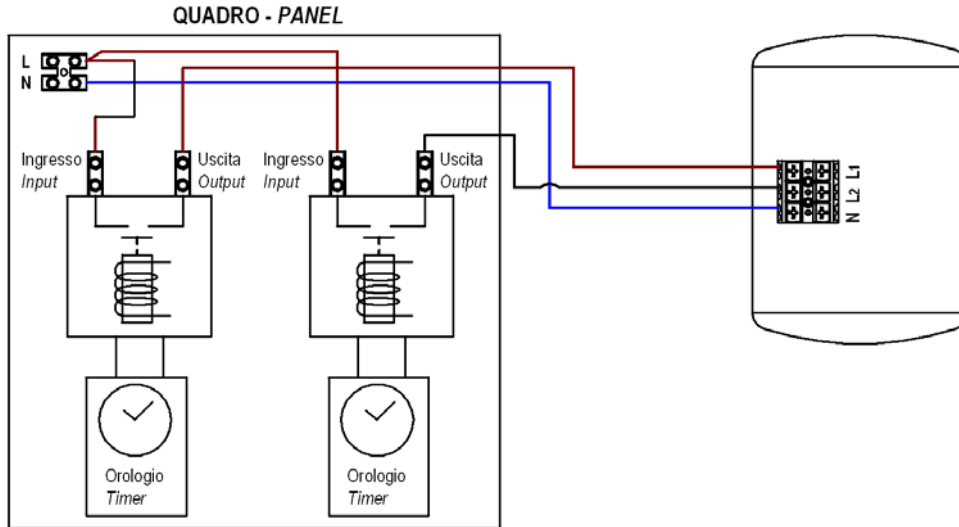
Multi level driving condition can be used to balance LED life expectancy, lumen output and energy savings. This option is designed for using inside installed controlling device/sensor or remote controlling devices, according to ambient and installation condition.

Multi level Option is designed to operate all LEDs at the same current, for each level selected, in order to optimize and make uniform LED life, light colour and light emission.

The G option is available for: Ledway Street, Ledway Canopy, Ledway Park and Ledway Tunnel up to six light bars and for Ledway Wall up to two light bars.

Three-level Option (Low, Medium, High mode)

Example of single phase connection:



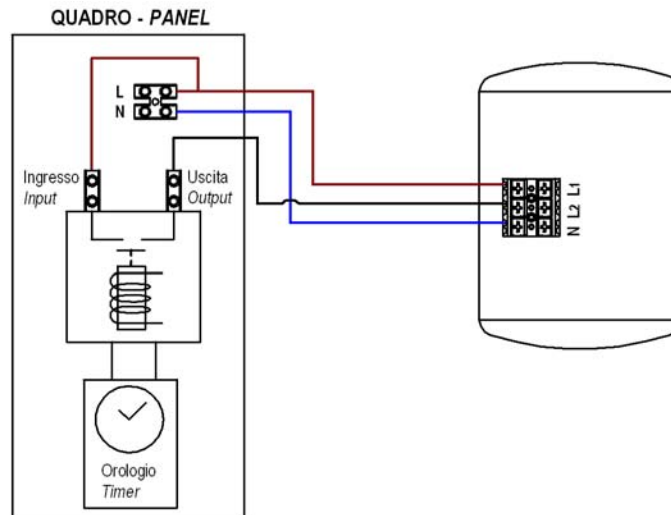
Three levels configuration allows a tri tap remote partitioning of the fixture lighting flux by working on L1 and L2 supply lines of the driver. This means fixture could work in different operating modes as it is shown in the following table
Follow a schematic table with a sample of operating modes

Level option	Drive current status	Fixture status	Emitted flux
A	L1= OFF L2=OFF N= permanent	Swich off	0%
B	L1=ON L2= OFF N= permanent	Low mode"	60%
C	L1= OFF L2=ON N= permanent	Medium mode	100%
D	L1= ON L2=ON N= permanent	High mode	130%

NOTE: In case of multi phase electrical connection, the terminal installed inside the remote panel doesn't group together phase1 and phase2 ; it should be present a terminal for each phase that could be used, by a timer or any other remote control, in order to drive the multi level condition. When you choose the phase remember to respect the optimal balance of the three-phase lines involved.

Two-level Option (Low – high mode):

Example of single phase connection:



This option is recommended for safety lighting, where the product operates the most with low mode and only for a brief time with high mode. It could even be recommended, replacing the clock with an occupancy sensor, where it is needed to reach high lighting levels only in the presence of people or means of transport.

This operating condition makes LED system working the majority in low mode and allows a strong improvement of LED life rating.

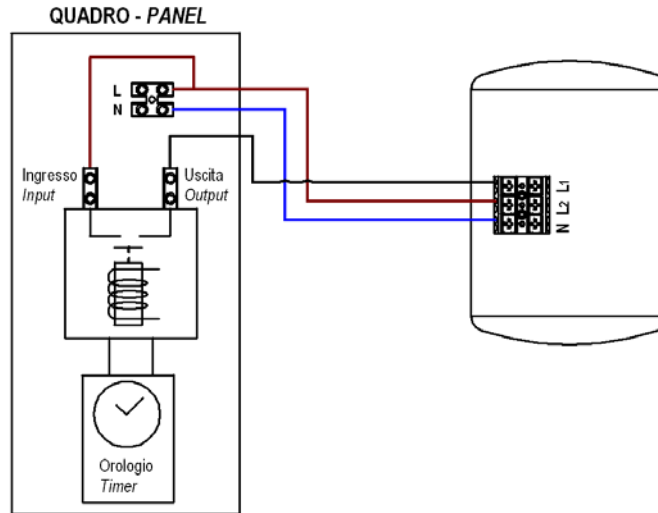
The following table shows the different operating conditions

Caso	Stato Alimentazione	Stato apparecchio	Flusso luminoso
A	L1= OFF L2=OFF N= permanente	Apparecchio spento	0%
B	L1= Permanente (da sezionatore o magnetotermico generale) L2=OFF N= permanente	Apparecchio configurato in "bassa emissione"	60%
C	L1= Permanente (da sezionatore o magnetotermico generale) L2=ON N= permanente	Apparecchio configurato in "alta emissione"	130%

NOTE: In case of multi phase electrical connection, the terminal installed inside the remote panel doesn't group together phase1 and phase2 ; it should be present a terminal for each phase that could be used, by a timer or any other remote control, in order to drive the multi level condition. When you choose the phase remember to respect the optimal balance of the three-phase lines involved.

Two-level option (Medium - High mode):

Example of single phase connection:



This option is recommended for street lighting or similar situations where the fixtures is supposed to operate the most with Medium mode

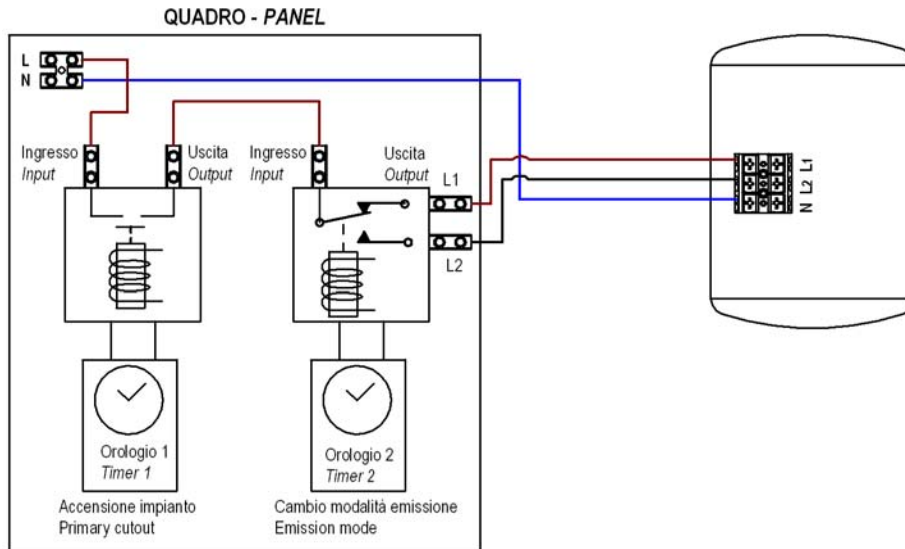
The following table shows the different operating conditions

Caso	Stato Alimentazione	Stato apparecchio	Flusso luminoso
A	L1= OFF L2=OFF N= permanente	Apparecchio spento	0%
B	L1= OFF L2= Permanente (da sezionatore o magnetotermico generale) N= permanente	Apparecchio configurato in "media emissione"	100%
C	L1= ON L2= Permanente (da sezionatore o magnetotermico generale) N= permanente	Apparecchio configurato in "alta emissione"	130%

NOTE: In case of multi phase electrical connection, the terminal installed inside the remote panel doesn't group together phase1 and phase2 ; it should be present a terminal for each phase that could be used, by a timer or any other remote control, in order to drive the multi level condition. When you choose the phase remember to respect the optimal balance of the three-phase lines involved.

Funzionamento Bipotenza (bassa - media emissione):

Example of collegamento monofase:



This option is recommended for street lighting or similar situations where the fixture is supposed to operate for the most with low mode

This operating condition makes LED system working the majority in low mode and allows a strong improvement of LED life rating.

The following table shows the different operating conditions

Caso	Orologio 1	Orologio 2	Stato apparecchio	Flusso luminoso
A	OFF	L1= OFF L2=OFF N= permanente	Apparecchio spento	0%
B	ON	L1=ON L2= OFF N= permanente	Apparecchio configurato in "bassa emissione"	60%
C	ON	L1= OFF L2=ON N= permanente	Apparecchio configurato in "media emissione"	100%

NOTE: In case of multi phase electrical connection, the two timers installed inside the remote panel should have a terminals dedicated for each phase in order to drive the multi level condition. When you choose the phase remember to respect the optimal balance of the three-phase lines involved.