



OPEN PROTOCOL FOR ELECTRICAL NETWORKS

$\begin{aligned} Who &= 1 \\ LIGHTING \\ Version 1.1 \end{aligned}$

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Introduction

This file is available from http://www.myopen-legrandgroup.com. The purpose of this document is to describe the Open Web Net Message for WHO = 1 - LIGHTING. In particular, the document contains the "1.1 Abbreviations" section which describe some terms, with the relative values, used within the open message. The second chapter, "WHO 1", contains the "WHAT", "DIMENSION" and "WHERE" tables, finally the chapter 3, "Allowed OPEN messages Session", contains command and event session, status request, dimension writing and request.

1.1 Abbreviations

Name	Description	Range of Values
<dimmerspeed></dimmerspeed>	Turn off (or on) the light at a pre- established speed	[0-255]: • $0 \to \text{Last speed used}$ • from 1 to $254 \to \text{Actual speed}$ • $255 \to \text{Default speed}$
<dimmerlevel10></dimmerlevel10>	Dimmer's level	[2-10]: • $2 \to 20\%$ • $3 \to 30\%$ • $4 \to 40\%$ • $5 \to 50\%$ • $6 \to 60\%$ • $7 \to 70\%$ • $8 \to 80\%$ • $9 \to 90\%$ • $10 \to 100\%$
<dimmerlevel100></dimmerlevel100>	The increase of the luminosity intensity of the light point; expressed as a percentage value	[100-200]: • $100 \rightarrow \text{Switching off}$ • $200 \rightarrow \text{Maximum luminosity intensity}$
<hour></hour>	It indicate show many hours the actuator has to stay ON	[0-255]





<min></min>	It indicate show many minutes the actuator has to stay ON	[0-59]
<sec></sec>	It indicate show many seconds the actuator has to stay ON	[0-59]
<status></status>	It indicates the status of actuator or dimmer	Status [0-1]: $\bullet \ 0 \to \text{OFF}$ $\bullet \ 1 \to \text{ON}$
<workingtime></workingtime>	The working time of the device in hours	[1-100000]



WHO 1

2.1 WHAT Table

Value	Description
0	Turn off
0#x	Turn off at x speed for step
1	Turn on
1#x	Turn on at x speed for step
2	20%
3	30%
4	40%
5	50%
6	60%
7	70%
8	80%
9	90%
10	100%
11	ON timed 1 Min
12	ON timed 2 Min
13	ON timed 3 Min
14	ON timed 4 Min
15	ON timed 5 Min
16	ON timed 15 Min
17	ON timed 30 Sec
18	ON timed 0.5 Sec
20	Blinking on 0.5 sec
21	Blinking on 1 sec
22	Blinking on 1.5 sec
23	Blinking on 2 sec
24	Blinking on 2.5 sec
25	Blinking on 3 sec
26	Blinking on 3.5 sec
27	Blinking on 4 sec
28	Blinking on 4.5 sec
29	Blinking on 5 sec
30	Up one level
30#x#y	Up of x levels at y speed for steep
31	Down one level
31#x#y	Down of x levels at y speed for step
1000	It accepts a parameter that is the value of what table





2.2 DIMENSION Table

Value	Description
1	Set up the level at X speed
2	Temporization
3	Required Only ON Light
4	Status dimmer 100 levels with ON/OFFspeed
8	Working time lamp
9	Max working time lamp

2.3 WHERE Table

Description	Value
Interface	Int = I3I4:
	• $I3 = 0; I4 [1 - 9]$
	• $I3 = 1; I4 [1 - 5]$
General	
	• $0 \to \text{General of system}$
	• $0#4#$ <int>\rightarrow General of local bus</int>
Area	A $[00, 1-9, 100]$:
	\bullet $<$ A $>\rightarrow$ Area of private riser
	• $<$ A $>$ #4# $<$ Int $>$ \rightarrow Area of local bus
Group	G [1-255]
	• $\#$ <g>\rightarrow Group of private riser</g>
	• # $<$ G># 4 # $<$ Int> \rightarrow Group of local bus
Point to point	A; PL:
	• $A = 00$; PL $[01 - 15]$
	• A [1 – 9]; PL [1 – 9]
	• $A = 10$; PL $[01 - 15]$;
	• A [01 – 09]; PL [10 – 15]
	\bullet <a><pl>\rightarrow Point to point of private riser</pl>
	• $<$ A $><$ PL $>$ #4# $<$ Int $>\rightarrow$ Point to point of local bus



Allowed OPEN messages Session

3.1 Command session - Light Frames

3.1.1 Turn OFF - What = 0

Command	Open Frame
$Client \rightarrow Server$	*1*0* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*0* <where>##</where>

3.1.2 Turn ON - What = 1

Command	Open Frame
$Client \rightarrow Server$	*1*1* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*1* <where>##</where>

3.1.3 ON timed $1 \min$ - What = 11

Command	Open Frame
$Client \rightarrow Server$	*1*11* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*1* <where>##</where>
Server \rightarrow Client	*1* <status>*<where>##</where></status>

3.1.4 ON timed 2 min - What = 12

Command	Open Frame
$Client \rightarrow Server$	*1*12* <where>##</where>
Server \rightarrow Client	Ack





Event Session	Open Frame
Server o Client	*1*1* <where>##</where>
Server o Client	*1* <status>*<where>##</where></status>

3.1.5 ON timed $3 \min$ - What = 13

Command	Open Frame
$Client \rightarrow Server$	*1*13* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*1* <where>##</where>
Server o Client	*1* <status>*<where>##</where></status>

3.1.6 ON timed 4 min - What = 14

Command	Open Frame
$Client \rightarrow Server$	*1*14* <where>##</where>
Server o Client	Ack

E	vent Session	Open Frame
Se	erver o Client	*1*1* <where>##</where>
Se	erver o Client	*1* <status>*<where>##</where></status>

3.1.7 ON timed $5 \min$ - What = 15

Command	Open Frame
$Client \rightarrow Server$	*1*15* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*1* <where>##</where>
Server \rightarrow Client	*1* <status>*<where>##</where></status>

3.1.8 ON timed 15 min - What = 16

Command	Open Frame
$Client \rightarrow Server$	*1*16* <where>##</where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*1* <where>##</where>
Server o Client	*1* <status>*<where>##</where></status>

3.1.9 ON timed 30 min - What = 17

Command	Open Frame
$Client \rightarrow Server$	*1*17* <where>##</where>
Server o Client	Ack





Event Session	Open Frame
Server o Client	*1*1* <where>##</where>
Server o Client	*1* <status>*<where>##</where></status>

3.1.10 ON timed $0.5 \sec - What = 18$

Command	Open Frame
$Client \rightarrow Server$	*1*18* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*1* <where>##</where>
Server o Client	*1* <status>*<where>##</where></status>

3.1.11 Blinking on 0.5 sec - What = 20

Command	Open Frame
$Client \rightarrow Server$	*1*20* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*20* <where>##</where>

3.1.12 Blinking on $1 \sec - What = 21$

Command	Open Frame
$Client \rightarrow Server$	*1*21* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*21* <where>##</where>

3.1.13 Blinking on $1.5 \sec$ - What = 22

Command	Open Frame
$Client \rightarrow Server$	*1*22* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*22* <where>##</where>

3.1.14 Blinking on $2 \sec$ - What = 23

Command	Open Frame
$Client \rightarrow Server$	*1*23* <where>##</where>
$Server \rightarrow Client$	Ack





Event Session	Open Frame
Server \rightarrow Client	*1*23* <where>##</where>

3.1.15 Blinking on 2.5 sec - What = 24

Command	Open Frame
$Client \rightarrow Server$	*1*24* <where>##</where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server o Client	*1*24* <where>##</where>

3.1.16 Blinking on $3 \sec$ - What = 25

Command	Open Frame
$Client \rightarrow Server$	*1*25* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*25* <where>##</where>

3.1.17 Blinking on 3.5 sec - What = 26

Command	Open Frame
$Client \rightarrow Server$	*1*26* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*26* <where>##</where>

3.1.18 Blinking on $4 \sec$ - What = 27

Command	Open Frame
$Client \rightarrow Server$	*1*27* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*27* <where>##</where>

3.1.19 Blinking on 4.5 sec - What = 28

Command	Open Frame
$Client \rightarrow Server$	*1*28* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*28* <where>##</where>

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3.1.20 Blinking on $5 \sec$ - What = 29

Command	Open Frame
$Client \rightarrow Server$	*1*29* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*29* <where>##</where>

3.1.21 Command translation - What = 1000

Command	Open Frame	Note
$Client \rightarrow Server$	*1*1000# <what>*<where>##</where></what>	This command is valid for dim-
		mer too
Server o Client	Ack	

Event Session	Open Frame
Server \rightarrow Client	*1*1000# <what>*<where>##</where></what>

3.2 Command session - Dimmer Frames

3.2.1 Turn OFF - What = 0

Command	Open Frame
$Client \rightarrow Server$	*1*0* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*0* <where>##</where>

3.2.2 Turn ON - What = 1

Command	Open Frame
$Client \rightarrow Server$	*1*1* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>

3.2.3 Turn OFF at x SPEED for step - What = 0#

Command	Open Frame
$Client \rightarrow Server$	*1*0# <dimmerspeed>*<where>##</where></dimmerspeed>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

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3.2.4 Turn ON at x SPEED - What = 1#

Command	Open Frame
$Client \rightarrow Server$	*1*1# <dimmerspeed>*<where>##</where></dimmerspeed>
Server o Client	Ack

Event Session	
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>



3.2.5 20% - What = 2

Command	Open Frame
$Client \rightarrow Server$	*1*2* <where>##</where>
Server o Client	Ack

E	vent Session	Open Frame
S	$\operatorname{erver} \to \operatorname{Client}$	*1*2* <where>##</where>

$3.2.6 \quad 30\% - What = 3$

Command	Open Frame
$Client \rightarrow Server$	*1*3* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*3* <where>##</where>

3.2.7 40% - What = 4

Command	Open Frame
$Client \rightarrow Server$	*1*4* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*4* <where>##</where>

3.2.8 50% - What = 5

Command	Open Frame
$Client \rightarrow Server$	*1*5* <where>##</where>
Server o Client	Ack

I	Event Session	Open Frame
Š	Server o Client	*1*5* <where>##</where>

3.2.9 60% - What = 6

Command	Open Frame
$Client \rightarrow Server$	*1*6* <where>##</where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*6* <where>##</where>



3.2.10 70% - What = 7

Command	Open Frame
$Client \rightarrow Server$	*1*7* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*7* <where>##</where>

3.2.11 80% - What = 8

Command	Open Frame
$Client \rightarrow Server$	*1*8* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*8* <where>##</where>

$3.2.12 \quad 90\% - What = 9$

	Command	Open Frame
($Client \rightarrow Server$	*1*9* <where>##</where>
Š	Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*9* <where>##</where>

$3.2.13 \quad 100\% - What = 10$

Command	Open Frame
$Client \rightarrow Server$	*1*10* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*10* <where>##</where>

3.2.14 ON timed 1 min - What = 11

Command	Open Frame
$Client \rightarrow Server$	*1*11* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
$Server \to Client$	*1*11* <where>##</where>
$Server \to Client$	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>



3.2.15 ON timed 2 min - What = 12

Command	Open Frame
$Client \rightarrow Server$	*1*12* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*12* <where>##</where>
Server \rightarrow Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>

3.2.16 ON timed 3 min - What = 13

Command	Open Frame
$Client \rightarrow Server$	*1*13* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*13* <where>##</where>
Server \rightarrow Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server \rightarrow Client	*1* <status>*<where>##</where></status>

3.2.17 ON timed 4 min - What = 14

Command	Open Frame
$Client \rightarrow Server$	*1*14* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*14* <where>##</where>
Server \rightarrow Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server \rightarrow Client	*1* <status>*<where>##</where></status>

3.2.18 ON timed 5 min - What = 15

Command	Open Frame
$Client \rightarrow Server$	*1*15* <where>##</where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*15* <where>##</where>
Server o Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>

3.2.19 ON timed 15 min - What = 16

Command	Open Frame
$Client \rightarrow Server$	*1*16* <where>##</where>
Server o Client	Ack





Event Session	Open Frame
Server o Client	*1*16* <where>##</where>
Server o Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>

3.2.20 ON timed $30 \sec$ - What = 17

Command	Open Frame
$Client \rightarrow Server$	*1*17* <where>##</where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*17* <where>##</where>
Server o Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>

3.2.21 ON timed 0.5 sec - What = 18

Command	Open Frame
$Client \rightarrow Server$	*1*18* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1*18* <where>##</where>
Server o Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	*1* <status>*<where>##</where></status>

3.2.22 Up one level - What = 30

Command	Open Frame
Client \rightarrow Server	*1*30* <where>##</where>
Server \rightarrow Client	Ack

F	Event Session	Open Frame
S	Server o Client	*1*<dimmerLevel10 + 1>* <where>##</where>

3.2.23 Up of x levels at y SPEED for step - What = 30#x#y

Command	Open Frame
Client \rightarrow Server	*1*30# <dimmerlevel10>#<dimmerspeed>*<where>##</where></dimmerspeed></dimmerlevel10>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

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3.2.24 Down one level - What = 31

Command	Open Frame
$Client \rightarrow Server$	*1*31* <where>##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1*<dimmerLevel10 - $1>*<$ where>##

3.2.25 Down of x levels at y SPEED for step - What = 31#x#y

Command	Open Frame
$Client \rightarrow Server$	*1*31# <dimmerlevel10>#<dimmerspeed>*<where>##</where></dimmerspeed></dimmerlevel10>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

3.3 Status request

3.3.1 Light status request command

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>##</where>
Server \rightarrow Client	*1* <status>*<where>##</where></status>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1* <status>*<where>##</where></status>

3.3.2 Dimmer status request command

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>##</where>
Server o Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*1* <dimmerlevel10>*<where>##</where></dimmerlevel10>

3.4 Dimension writing

3.4.1 Set up the level at X speed - Dimension = 1

Command	l	Open Frame
Client \rightarrow Se	erver	*#1* <where>$#1*$<dimmerlevel100><dimmerspeed>$##$</dimmerspeed></dimmerlevel100></where>
Server \rightarrow C	Client	Ack



	Open Frame
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

3.4.2 Temporization command - Dimension = 2

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*#2*<hour>*<min>*<sec>##</sec></min></hour></where>
Server o Client	Ack

Event Session	Open Frame
Server o Client	*1* <state>*<where>##</where></state>
Server o Client	*#1* <where>*#2*<dimmerlevel100>*<dimmerspeed>## (only for dimmer)</dimmerspeed></dimmerlevel100></where>

3.4.3 Max working time lamp - Dimension = 9

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*#9*<workingtime>##</workingtime></where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*#9*<workingtime>##</workingtime></where>

3.5 Dimension request

3.5.1 Set up the level at X speed - Dimension = 1

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*1##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>$*1*$<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

3.5.2 Temporization request - Dimension = 2

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*2##</where>
Server o Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*2*<hour>*<min>*<sec>##</sec></min></hour></where>

3.5.3 Required Only ON Light - Dimension = 3

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*3##</where>
Server o Client	*1* <dimmerlevel10>*<where>## (only if some dimmer is ON)</where></dimmerlevel10>
Server o Client	*1* <status>*12<where>## (only if some lights is ON, status=1)</where></status>
Server o Client	Ack





3.5.4 Working time lamp - Dimension = 8

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*8##</where>
Server \rightarrow Client	*#1* <where>*8*<workingtime>##</workingtime></where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*8*<workingtime>##</workingtime></where>

3.5.5 Max working time lamp - Dimension = 9

Command	Open Frame
$Client \rightarrow Server$	*#1* <where>*9##</where>
Server o Client	*#1* <where>*9*<workingtime>##</workingtime></where>
Server \rightarrow Client	Ack

Event Session	Open Frame
Server o Client	*#1* <where>*9*<workingtime>##</workingtime></where>

3.6 Event session

3.6.1 Light status

Event Session	Open Frame
Server \rightarrow Client	*1* <what>*<where>##</where></what>

3.6.2 Luminous intensity change

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*1*<dimmerlevel100>*<dimmerspeed>##</dimmerspeed></dimmerlevel100></where>

3.6.3 Light temporization

Event Session	Open Frame
Server \rightarrow Client	*#1* <where>*2*<hour>*<min>*<sec>##</sec></min></hour></where>

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WHO 14

4.1 WHAT Table

Value	Description
0	Disable
1	Enable

4.2 WHERE Table

Description	Value
General	
	• $0 \to \text{General of system}$
Area	A [00, 1 – 9, 100]:
	\bullet $<$ A $> \rightarrow$ Area
Point to point	A; PL:
	• $\langle A \rangle \langle PL \rangle \rightarrow Point to point$



Allowed OPEN messages Session

5.1 Command session - Special Commands

5.1.1 Disable - What = 0

Command	Open Frame
$Client \rightarrow Server$	*14*0* <where>##</where>
Server o Client	Ack

Event Session	Open Frame	Note
Server o Client	*14*0* <where>##</where>	if the command is addressed to
		APL there won't be any answer
		in the monitor session.

5.1.2 Enable - What = 1

Command	Open Frame
$Client \rightarrow Server$	*14*1* <where>##</where>
Server o Client	Ack

Event Session	Open Frame	Note
$Server \to Client$	*14*1* <where>##</where>	if the command is addressed to
		APL there won't be any answer
		in the monitor session.

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