

PARATHOM® / PARATHOM PRO® MR16 Dimmer Compatibility



BASIC INFORMATION:

1. HOW MANY LAMPS CAN I INSTALL ON ONE DIMMER?

For max. number of lamps on a dimmer, please use the following rule of thumb:
(Please note: actual number may vary from calculated result)

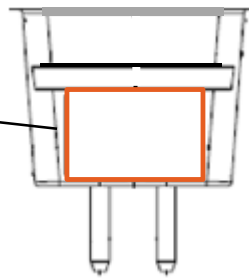
$$\frac{\text{Max load of dimmer}}{\text{equivalent wattage (HAL/GLS)}} = \text{max. number of lamps}$$

2. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

The product code describes the lamp type. It contains 7 letters and digits and is starting with A...

Example for the product code on the stamp of the lamp:

OSRAM
MR16 20 36° · **AA37362**
dim · 210lm · 2700K



3. HOW CAN I READ THE FOLLOWING CHARTS?

PARATHOM® PAR16 ADVANCED Dimmer Compatibility

Legend:
Information about the dimmability of the lamps. Green means very good dimmability habits, red means partial critical dimmability habits.

Dimmability traffic light system:

- very good dimmability habits (Dimming range = 75%)
- good dimmability habits (Dimming range = 50%)
- partial critical dimmability habits (flickering or acoustic noise may occur) (Dimming range = 50%)
- not tested

Type	PARATHOM MR16 20 36° ADV	PARATHOM MR16 35 36° ADV	PARATHOM PRO MR16 20 36°	PARATHOM PRO MR16 42	PARATHOM PRO MR16 59
Product Picture					
EAN	4008321884655	4008321884989	4052899904668	4052899014312	4052899906198
Product Code	AA65301	AA65312	AA37359	AA55550	AA44085
EAN	4008321884756	4008321885139	4052899904675	4052899014350	4052899906204
Product Code	AA65308	AA65316	AA37360	AA55501	AA44086
EAN	4008321884923	4008321885166	4052899904682	4052899014381	4052899906211
Product Code	AA65307	AA65317	AA37361	AA55502	AA44087
EAN	4008321884954	4008321885197	4052899904699		
Product Code	AA65310	AA65319	AA37362		
EAN			4052899904705		
Product Code			AA37363		
EAN			4052899904712		
Product Code			AA37364		

Information about the OSRAM lamp type

Number of lamps tested on dimmer

List of dimmers being tested in the laboratory

Dimmer	PARATHOM MR16 20 36° ADV					PARATHOM MR16 35 36° ADV					PARATHOM PRO MR16 20 36°					PARATHOM PRO MR16 42					PARATHOM PRO MR16 59								
	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	
ABB STD 50-3																													
Berker 2874																													
Berker 281902																													
Busch-Jaeger 2247U																													
Busch-Jaeger 2250 U																													
Busch-Jaeger 6523 U																													
Busch-Jaeger 6513 U-102																													
Busch-Jaeger 6517 U-101																													
Ehmann 4660c0026																													
ELSO 174200 (ATD300R)																													
EVERFLOURISH EFM700DB																													
EVERFLOURISH EFM700DC																													
Gira 0300 00																													
Gira 030700																													
Gira 117600																													

Test results of dimmability according to the traffic light system

Example: Dimmer Berker 2874 shows very good dimmability habits for one PARATHOM MR16 20 36° ADV lamp.

PARATHOM® / PARATHOM PRO® MR16 Dimmer Compatibility*

Dimmability traffic light system:

Green	very good dimmability habits (Dimming range \geq 75%)
Yellow	good dimmability habits (Dimming range \geq 60%)
Red	partial critical dimmability habits (flickering or acoustic noises may occur) (Dimming range $<$ 60%)
White	not tested

Type	PARATHOM MR16 20 ADV	PARATHOM MR16 35 ADV	PARATHOM MR16 50 ADV	PARATHOM PRO MR16 20	PARATHOM PRO MR16 35	PARATHOM PRO MR16 43
Product Picture						
EAN	4052899943681	4052899943711	4052899943759	4052899944039	4052899944060	4052899944091
Product Code	AB35801	AB35106	AB35115	AB30688	AB30690	AB30691
EAN	4052899943698	4052899943728	4052899943766	4052899944046	4052899944077	4052899944107
Product Code	AB35098	AB35804	AB35803	AB35094	AB35096	AB35097
EAN	4052899943704	4052899943735	4052899943773	4052899944053	4052899944084	4052899944114
Product Code	AB35802	AB35108	AB35116	AB35101	AB35095	AB35100
EAN		4052899943742	4052899943780			
Product Code		AB35805	AB35806			

Dimmer

Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps
Busch-Jaeger	6513U-102	230/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6523U-LED	230/50Hz	2-100	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
AURORA	DSP 400	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	665114	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Jung	225 NVDE	230/50Hz	20-500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Siemens	5TC8 284	230/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Gira	117600	230/50Hz	50-420	U	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	315GLE	230/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Schneider	STD400T	230/50Hz	400	U	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Osram	Hti DALI 315 DIM	230/50Hz	20-315 DALI T		Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ABB	STD 50-3	230/50Hz	60-500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Altenburger Electronic	50.30	230/50Hz	15-350	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Berker	2861	230/50Hz	50-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
bticino	NT4402N	230/50Hz	500	L	Red	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	2250 U	230/50Hz	60-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6591UJCGL-101-214	230/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	L	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
DINUY	RE EL1 LE1	230/50Hz	400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hugo Müller	Paladin 872110 led	230V / 50Hz	400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	420GLE/I	230/50Hz	40-420	T	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
ELKO	600GLi	230/50Hz	40-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	630GLE	230/50Hz	20-630	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Eltako	EUD61NPN-UC	230/50Hz	5-400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Feller	40600 RLC	230/50Hz	20-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Gira	030500	230/50Hz	50-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Gira	030700	230/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Gira	217400	230/50Hz	4X20-250	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hager	WUD87	230/50Hz	400	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hamilton	KP1X40	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Jung	225 TDE	230/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

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Product Code		AB35805	AB35806			

Dimmer

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					1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	5 Lamps
Legrand	078405	230/50Hz	600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	099314	230/50Hz	300	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	281080	230/50Hz	500	L	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Legrand	281084	230/50Hz	500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	617030	230/50Hz	600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	617031	230/50Hz	1000	L	Yellow	Red	Red	Red	Yellow	Green	Green	Green	Green	Green
Legrand	770061	230/50Hz	400	L	Yellow	Green	Green	Green	Yellow	Green	Green	Green	Green	Green
Legrand	770062	230/50Hz	400	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MASTER	DM-2500	230/50Hz	2500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MASTER	DM-DGL	230/50Hz	1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Merten	MEG 5131	230/50Hz	40-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Merten	MEG 5135	230/50Hz	60-1000	L	Red	Yellow	Red	Red	Red	Yellow	Green	Green	Green	Green
Merten	MEG 5140	230/50Hz	9-100	L	Red	Green	Green	Green	Red	Green	Green	Green	Green	Green
Merten	MEG 5170-0300	230/50Hz	10-200	T	Red	Green	Green	Green	Red	Green	Green	Green	Green	Green
MK	K4501	230/50Hz	180	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
NEXUS	881P-01	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
NIKO	310-01900 / 01901	230/50Hz	5-200	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
NIKO	330-00700 / 00701	230/50Hz	5-200	L/T	Yellow	Green	Green	Green	Yellow	Green	Green	Green	Green	Green
PEHA	435 HAN	230/50Hz	60-600	L	Green	Green	Yellow	Red	Green	Yellow	Green	Green	Green	Green
Shuttle	SDIM-T-LED-500W	230/50Hz	2-500	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Siemens	5WG1-527-1AB31	230/50Hz	20-500	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
VADSBO	LD 220	230/50Hz	1-200	T	Red	Green	Green	Green	Red	Green	Green	Green	Green	Green
VARILIGHT	HQ3W	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
VARILIGHT	JQP401W	230/50Hz	400	T	Green	Green	Yellow	Green	Green	Green	Green	Green	Yellow	Green
Vimar	20135	230/50Hz	3 - 100	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	WH251	230/50Hz	250	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	WH401	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	Z GRID 500	230/50Hz	500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	Z GRID 700	230/50Hz	250	T	Green	Green	Red	Red	Green	Green	Green	Green	Green	Red

PARATHOM® / PARATHOM PRO® MR16 Dimmer Compatibility



Please Note:

- The compatibility list is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. OSRAM does not take over any responsibility, warranty or liability that this results can also achieved by using the devices under other conditions, or when using successor models of the tested devices, or different models of the same manufacturer, or when using other LED lamp types
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- Please reference the dimmer manufacturer's instructions for installation.
- LED lamps contain several electronic components. Under unfavourable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaire (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).
- Subject to change without notice
- Errors and omission excepted
- Always make sure to use the most recent release

Application Notes:

- For best dimming results trailing edge dimmer type is recommended.
- Trailing edge type dimmer require the neutral wire for installation.