



Industrial LED Lighting

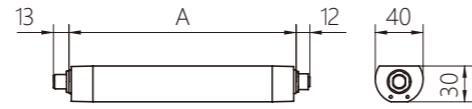


MACH LED PLUS.forty/seventy

- Light without glare, uniform, soft transition
- A Aluminum housing, 4 mm thick safety glass
- The side cover has super strong bearing capacity, adopts Viton[®] sealing cover, high protection level
- Resistant to various coolants, lubricants, high temperature, vibration and shock
- M12 sealing joint
- Electrical daisy chain connection
- Outer diameter 40mm, 70mm



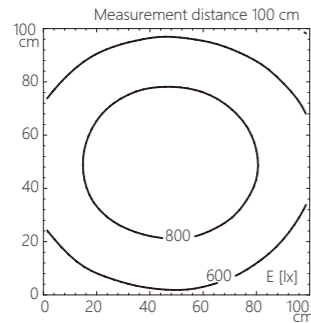
MACH LED PLUS.forty with through-wiring



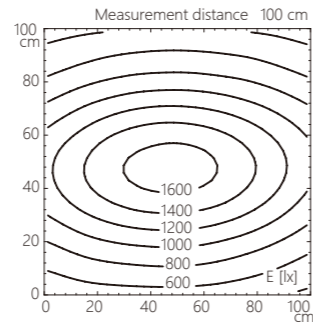
Technical data

Features:

- Available in 27, 42 or 57 LEDs
- Color temperature: natural light, white 5 000 K
- Color rendering Ra > 80
- Irradiation angle 40° (optical lens) or 90° (reflector)
- Anodized aluminum housing, high quality plastic black edge, 4 mm thick safety glass
- A variety of mounting brackets are available
- The recommended maximum ambient temperature is 50° C
- LED lifetime (L 70) > 60 000 h
- Vibration resistance 10-55 Hz (amplitude 0.35 mm) and impact resistance up to 50 g
- IP67 protection class; Protection against electric shock class III
- It is connected with M12 plug, A-coded



Illuminance taking MLAL 57 S with 90° reflector as an example



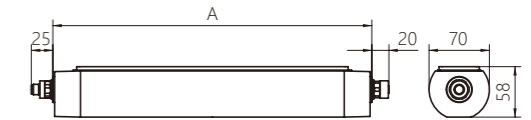
Illuminance taking MLAL 57 S with 40° optics as an example

20–28 VDC

Power	Size	Wiring	Illumination	Part number	Ordering code
10.5 W	A = 365 mm x 40 mm	–	348/477 lx ¹	MLAL-27-SDN	A40041
10.5 W	A = 365 mm x 40 mm	With switch	348/477 lx ¹	MLAL-27-SWN	A40051
10.5 W	A = 365 mm x 40 mm	With serial port	348/477 lx ¹	MLAL-27-SDD	A40061
16.0 W	A = 540 mm x 40 mm	–	541/732 lx ¹	MLAL-42-SDN	A40081
16.0 W	A = 540 mm x 40 mm	With switch	541/732 lx ¹	MLAL-42-SWN	A40091
16.0 W	A = 540 mm x 40 mm	With serial port	541/732 lx ¹	MLAL-42-SDD	A40101
21.5 W	A = 715 mm x 40 mm	–	718/957 lx ¹	MLAL-57-SDN	A40121
21.5 W	A = 715 mm x 40 mm	With switch	718/957 lx ¹	MLAL-57-SWN	A40131
21.5 W	A = 715 mm x 40 mm	With serial port	718/957 lx ¹	MLAL-57-SDD	A40141



MACH LED PLUS.seventy with through-wiring



18–30 VDC

Power	Size	Wiring	Illumination	Part number	Ordering code
12 W	A = 370 mm x 70 mm	–	340/443 lx ¹	MQAL-24-SDN	A70001
12 W	A = 370 mm x 70 mm	With switch	340/443 lx ¹	MQAL-24-SWN	A70011
12 W	A = 370 mm x 70 mm	With serial port	340/443 lx ¹	MQAL-24-SDD	A70021
18 W	A = 510 mm x 70 mm	–	506/662 lx ¹	MQAL-36-SDN	A70041
18 W	A = 510 mm x 70 mm	With switch	506/662 lx ¹	MQAL-36-SWN	A70051
18 W	A = 510 mm x 70 mm	With serial port	506/662 lx ¹	MQAL-36-SDD	A70061
24 W	A = 650 mm x 70 mm	–	657/856 lx ¹	MQAL-48-SDN	A70081
24 W	A = 650 mm x 70 mm	With switch	657/856 lx ¹	MQAL-48-SWN	A70091
24 W	A = 650 mm x 70 mm	With serial port	657/856 lx ¹	MQAL-48-SDD	A70101
30 W	A = 790 mm x 70 mm	–	814/1056 lx ¹	MQAL-60-SDN	A70121
30 W	A = 790 mm x 70 mm	With switch	814/1056 lx ¹	MQAL-60-SWN	A70131
30 W	A = 790 mm x 70 mm	With serial port	814/1056 lx ¹	MQAL-60-SDD	A70141
42 W	A = 1070 mm x 70 mm	–	1089/1391 lx ¹	MQAL-84-SDN	A70161
42 W	A = 1070 mm x 70 mm	With switch	1089/1391 lx ¹	MQAL-84-SWN	A70171
42 W	A = 1070 mm x 70 mm	With serial port	1089/1391 lx ¹	MQAL-84-SDD	A70181

100/120/220–240 V, 50/60 HZ

Power	Size	Wiring	Illumination	Part number	Ordering code
15 W	A = 370 mm x 70 mm	–	340/443 lx ¹	MQAL-24-LDN	A70201
15 W	A = 370 mm x 70 mm	With switch	340/443 lx ¹	MQAL-24-LWN	A70211
15 W	A = 370 mm x 70 mm	With serial port	340/443 lx ¹	MQAL-24-LDD	A70221
21 W	A = 510 mm x 70 mm	–	506/662 lx ¹	MQAL-36-LDN	A70241
21 W	A = 510 mm x 70 mm	With switch	506/662 lx ¹	MQAL-36-LWN	A70251
21 W	A = 510 mm x 70 mm	With serial port	506/662 lx ¹	MQAL-36-LDD	A70261
27 W	A = 650 mm x 70 mm	–	657/856 lx ¹	MQAL-48-LDN	A70281
27 W	A = 650 mm x 70 mm	With switch	657/856 lx ¹	MQAL-48-LWN	A70291
27 W	A = 650 mm x 70 mm	With serial port	657/856 lx ¹	MQAL-48-LDD	A70301
20 W	A = 790 mm x 70 mm	–	444/573 lx ¹	MQAL-30-LDN	A70321
20 W	A = 790 mm x 70 mm	With switch	444/573 lx ¹	MQAL-30-LWN	A70331
20 W	A = 790 mm x 70 mm	With serial port	444/573 lx ¹	MQAL-30-LDD	A70341
26 W	A = 1070 mm x 70 mm	–	597/756 lx ¹	MQAL-42-LDN	A70361
26 W	A = 1070 mm x 70 mm	With switch	597/756 lx ¹	MQAL-42-LWN	A70371
26 W	A = 1070 mm x 70 mm	With serial port	597/756 lx ¹	MQAL-42-LDD	A70381



Accessories

Lamp bracket set			
Special function	use	Ordering code	
Adjustment range +/- 90°	MACH LED PLUS.forty	ACC401	

Lamp bracket set			
Special function		Ordering code	
Adjustment range +/- 65°	MACH LED PLUS.seventy	ACC701	

M12 connector socket			
Socket		Ordering code	
4-pin A-coded	Wire diameter up to 1.5 mm ² Cable diameter 6 –8 mm	64F021	

M12 connector socket			
Plug		Ordering code	
4-pin A-coded	Wire diameter up to 1.5 mm ² Cable diameter 6 –8 mm	64F121	

M12 connector cable			
Remarks: xxx=cable length, can be customized according to needs when ordering : 005=0.5m, 030=3m			
Plug	Cable	Type	Ordering code
5-pin A-coded	3 x 0.75 mm ² Cable diameter 5.9 mm	M12 female	64S405-xxx
5-pin A-coded	3 x 0.75 mm ² Cable diameter 5.9 mm	M12 female/M12 male	64D405-xxx

Wiring instructions:

When the LED light is connected to 24V power supply, the plug wiring method is: 1 - positive pole of power supply, 3 - negative pole of power supply.

When the LED light is connected to 220V power supply, the plug wiring method is: 1 - positive pole of power supply, 3 - negative pole of power supply, 4 - ground.

Mounting bracket size chart:

