

MACH LED PLUS

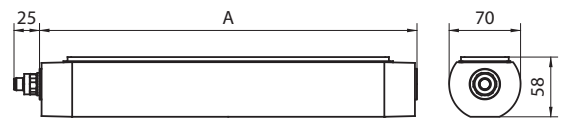
70mm LINEAR LED MACHINE LIGHT

FEATURES:

- Compatible with standard 70mm tube lights for easy retrofit of existing fluorescent tubes to LED
- Up to 70% energy savings compared to fluorescent lamp fixtures
- Six lengths to fit any machine configuration
- Two lumen packages available, Eco or High Output
- 50,000 hours of maintenance-free operation with high-performance, high-output, LED technology
- Anodized aluminum housing and 4mm thick safety glass insures trouble-free operation in harsh environments
- Easy connection via M12 connector (included)
- Available in both line voltage or low voltage
- Designed for use with coolants and lubricants

SPECIFICATIONS:

Voltage	24V DC or 100-240V; 50/60Hz
Lamping	LED
Color Temperature (Kelvin)	5000K
Color Rendering Index (CRI)	85
Luminaire Material	anodized aluminum
Lens Material	4mm thick borosilicate safety glass
Dimension	6 lengths, 2.75" diameter
Protection Rating	IP67 waterproof
Certification	ETL/cETL approved
Mounting options	see page 62



SEE CHART FOR INDIVIDUAL LENGTHS (A)
(MEASUREMENTS IN MILLIMETERS)

MACH LED PLUS is the ideal LED solution for linear machine lighting applications. It produces intense illumination for the most demanding industrial applications: impervious to mechanical vibration, completely waterproof (IP67) and resistant to coolants and lubricants. Designed for high temperature environments, MACH LED PLUS is compatible with standard 70mm tube lights used in many machines, MACH LED PLUS can replace these light fixtures using existing mounting brackets. Thanks to well-engineered design, superior craftsmanship and highest quality materials, MACH LED PLUS withstands the toughest conditions found in manufacturing and machining environments.

ORDERING INFORMATION

VERSION	WATTAGE	LENGTH (A)	LUMENS	MODEL	PART #
24V VERSIONS					
ECO	7W	14.5" (370mm)	500	MQAL 12 S	113 045 000 - 005 807 02
ECO, THRU-WIRE	7W	14.5" (370mm)	500	MQAL 12 SD	113 046 000 - 005 806 96
HIGH-OUTPUT	12W	14.5" (370mm)	900	MQAL 24 S	113 047 000 - 005 806 93
HIGH-OUTPUT, THRU-WIRE	12W	14.5" (370mm)	900	MQAL 24 SD	113 048 000 - 005 805 73
ECO	10W	20.1" (510mm)	750	MQAL 18 S	113 053 000 - 005 805 88
ECO, THRU-WIRE	10W	20.1" (510mm)	750	MQAL 18 SD	113 054 000 - 005 805 91
HIGH-OUTPUT	18W	20.1" (510mm)	1350	MQAL 36 S	113 055 000 - 005 805 94
HIGH-OUTPUT, THRU-WIRE	18W	20.1" (510mm)	1350	MQAL 36 SD	113 056 000 - 005 805 97
ECO	10W	22.2" (565mm)	750	MQAL 18 S	113 061 000 - 005 806 12
ECO, THRU-WIRE	10W	22.2" (565mm)	750	MQAL 18 SD	113 062 000 - 005 806 15
HIGH-OUTPUT	18W	22.2" (565mm)	1350	MQAL 36 S	113 063 000 - 005 806 18
HIGH-OUTPUT, THRU-WIRE	18W	22.2" (565mm)	1350	MQAL 36 SD	113 064 000 - 005 806 21
ECO	13W	25.6" (650mm)	1000	MQAL 24 S	113 069 000 - 005 806 39
ECO, THRU-WIRE	13W	25.6" (650mm)	1000	MQAL 24 SD	113 070 000 - 005 806 42
HIGH-OUTPUT	24W	25.6" (650mm)	1800	MQAL 48 S	113 071 000 - 005 806 45
HIGH-OUTPUT, THRU-WIRE	24W	25.6" (650mm)	1800	MQAL 48 SD	113 072 000 - 005 806 48
ECO	16W	31.1" (790mm)	1250	MQAL 36 S	113 077 000 - 005 806 63
ECO, THRU-WIRE	16W	31.1" (790mm)	1250	MQAL 36 SD	113 078 000 - 005 806 66
HIGH-OUTPUT	30W	31.1" (790mm)	2300	MQAL 60 S	113 124 000 - 006 118 55
HIGH-OUTPUT, THRU-WIRE	30W	31.1" (790mm)	2300	MQAL 60 SD	113 125 000 - 006 128 44
ECO	22W	42.1" (1070mm)	1750	MQAL 42 S	113 081 000 - 005 806 75
ECO, THRU-WIRE	22W	42.1" (1070mm)	1750	MQAL 42 SD	113 082 000 - 005 806 81
HIGH-OUTPUT	42W	42.1" (1070mm)	3200	MQAL 84 S	113 126 000 - 006 129 73
HIGH-OUTPUT, THRU-WIRE	42W	42.1" (1070mm)	3200	MQAL 84 SD	113 122 000 - 006 098 07

100-240V VERSIONS use with operating device (see below)

ECO	9W	14.5" (370mm)	500	MQAL 12 N	113 049 000 - 005 805 76
ECO, THRU-WIRE	9W	14.5" (370mm)	500	MQAL 12 ND	113 050 000 - 005 805 79
HIGH-OUTPUT	15W	14.5" (370mm)	900	MQAL 24 N	113 051 000 - 005 805 82
HIGH-OUTPUT, THRU-WIRE	15W	14.5" (370mm)	900	MQAL 24 ND	113 052 000 - 005 805 85
ECO	12W	20.1" (510mm)	750	MQAL 18 N	113 057 000 - 005 806 00
ECO, THRU-WIRE	12W	20.1" (510mm)	750	MQAL 18 ND	113 058 000 - 005 806 03
HIGH-OUTPUT	21W	20.1" (510mm)	1350	MQAL 36 N	113 059 000 - 005 806 06
HIGH-OUTPUT, THRU-WIRE	21W	20.1" (510mm)	1350	MQAL 36 ND	113 060 000 - 005 806 09
ECO	12W	22.2" (565mm)	750	MQAL 18 N	113 065 000 - 005 806 24
ECO, THRU-WIRE	12W	22.2" (565mm)	750	MQAL 18 N	113 066 000 - 005 806 30
HIGH-OUTPUT	21W	22.2" (565mm)	1350	MQAL 36 N	113 067 000 - 005 806 33
HIGH-OUTPUT, THRU-WIRE	21W	22.2" (565mm)	1350	MQAL 36 ND	113 068 000 - 005 806 36
ECO	15W	25.6" (650mm)	1000	MQAL 24 N	113 073 000 - 005 806 51
ECO, THRU-WIRE	15W	25.6" (650mm)	1000	MQAL 24 ND	113 074 000 - 005 806 54
HIGH-OUTPUT	27W	25.6" (650mm)	1800	MQAL 48 N	113 075 000 - 005 806 57
HIGH-OUTPUT, THRU-WIRE	27W	25.6" (650mm)	1800	MQAL 48 ND	113 076 000 - 005 806 60
ECO	20W	31.1" (790mm)	1250	MQAL 30 N	113 079 000 - 005 806 69
ECO, THRU-WIRE	20W	31.1" (790mm)	1250	MQAL 30 ND	113 080 000 - 005 806 72
ECO	26W	42.1" (1070mm)	1750	MQAL 42 N	113 083 000 - 005 806 84
ECO, THRU-WIRE	26W	42.1" (1070mm)	1750	MQAL 42 ND	113 084 000 - 005 806 90

EXTERNAL OPERATING DEVICES	MAX. WATTAGE	INPUT VOLTAGE	OUTPUT	PART #
	17W	120-277V, 50/60Hz	24V DC	209 585 028
	20W	100-240V, 50/60Hz	24V DC	209 585 029 - 000 989 030
	50W	120V, 50/60Hz	24V DC	209 585 030
	75W	120-277V DC, 50/60Hz	24V DC	209 585 031

MOUNTING OPTIONS	ITEM	UNIT	PART #
	End Bracket Set, adjustable, +/- 65° (sold in pairs)	Sold as pairs	408 001 876 - 005 820 65
	Clip Bracket, adjustable, +/- 30° (sold individually)	Sold individually	408 001 878 - 005 855 35
	Protective Cap Set (not for use with end brackets)	Sold as pairs	408 001 875 - 005 820 72

ACCESSORIES	ITEM	TYPE	VERSION	PART #
	M12 Connector	A-coded	for 24V versions	330 634 010 - 000 039 70
	M12 Connector	S-coded	100-240V versions	336 885 010 - 005 975 38