

LUXMETER



OVERVIEW

The MS-LUX luxmeter is designed to measure the intensity of illumination of a natural or artificial light source. A measuring cell is used to convert the beam emitted from the light into an electrical output signal which is proportional to the intensity of illumination and, at the same time, the beam is amplified by a precise amplifier into an analog output signal of a defined voltage or a 4..20mA current. The optical filter is transparent for wave lengths of 350..750nm. This corresponds to that proportion of the beam, that is visible to the human eye. Very unique is the glass dome which protects the measuring cell from all the weather conditions and the newly offered threshold depending output switch, which can directly switch on/off a light or can be feed to a control unit.



ADVANTAGES

- Ready to use with an integrated box level
- measurement range 0..10 kLux or 160 kLux
- output signal: 0..50mV passive, standardized or with amplifier inside 0..10V, 4..20mA
- custom output signal/measurement range on request
- protection class Ip67
- easy and fast levelling/mounting due to fixation with integrated knurled screws
- programmable threshold output switch
- low temperature drift



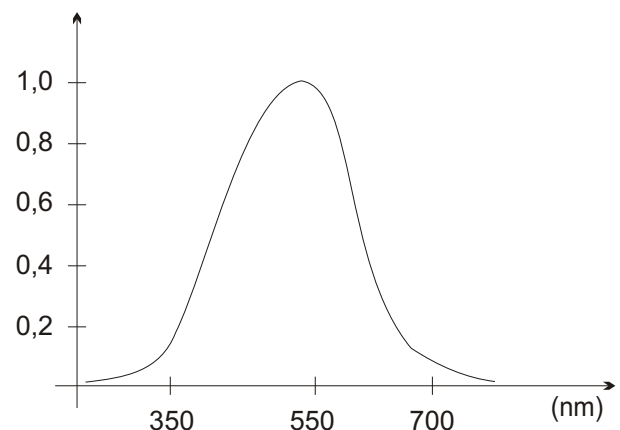
OUTPUT

The appeal of the MS/ML-LUX lies in the multitude of output signals. Beside a voltage or current output a programmable threshold switch is available. Threshold value, hysteresis and time delay should be defined prior to ordering as they are factory settings.

APPLICATIONS

- Building automation and services
- lightness measurement at workspace (often regulated by trade association)
- intensity dependent light control in museums, schools, etc.
- Greenhouses for control irrigation
- shade installations
- dimmer switch e.g. for outside lighting

SPECTRAL RESPONSE



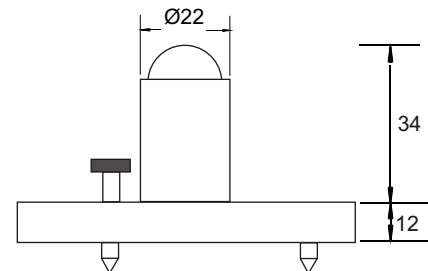
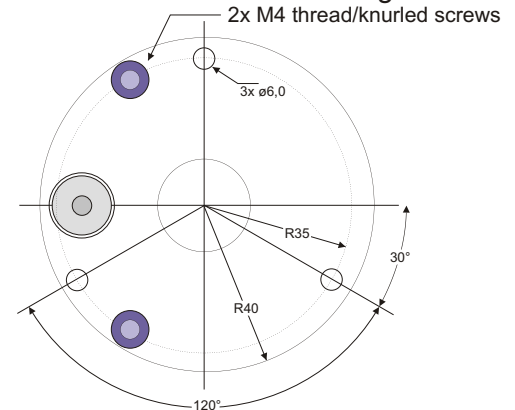
TECHNICAL DATA

With amplifier	MS-LUX (indoor)	MS-LUX (outdoor)
Measurement range	0..10 kLux	0..160 kLux
Output	0..1V 0..5V 0..10V @>5kOhm load 4..20mA @<200Ohm load short circuit, inverse polarity and over-load protected up to U	0..1V 0..5V 0..10V @>5kOhm load 4..20mA @<200Ohm load short circuit, inverse polarity and over-load protected up to U
Threshold sitch 20-100% full scale	max. 24V/0,5A 24V against U _{ground}	max. 24V/0,5A 24V against U _{ground}
Temperatur drift	<0,15%/K	<0,15%/K
Spectral response	350..750nm	350..750nm
Long term drift	<2%/year	<2%/year
Refresh time	<50ms	<50ms
Offset	<5mV@0kLux	<5mV@0kLux
Cosine-error	<10%@80°	<10%@80°
Power supply	12..24V (7mA@24V)	12..24V (7mA@24V)
Operating temp	-40°..+60°C	-40°..+60°C
Cable	2m / 4x0,22mm ²	2m / 4x0,22mm ²
Weight	ca. 150g	ca.150g

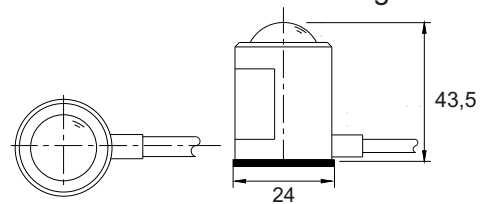
Without amplifier	ML-LUX (indoor)	ML-LUX (outdoor)
Measuring range	0..10 kLux	0..160 kLux
Output	0..50mV	0..50mV

DIMENSION

ML/MS-LUX with standard housing



ML/MS-LUX with Smart Housing

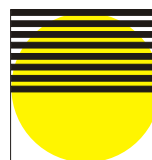


ORDERING CODE

Mx-	LUX	M	O	Threshold active=S	G	H	T
			Output 0..50mV 0..1V 0..10V 4..20mA custom		Disired threshold value 20-100% fs. (F.s.) x %	Hysteresys xx kLux	Switching on/off time delay xx minutes
	Measuring range 10 kLux 160 kLux						

X= S with amplifier
x = L without amplifier

YOUR LOCAL REPRESENTATIVE



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