

Solar Panels — Continued

MSX-Lite Modules



- MSX-10 Lite, 10 watt module
- MSX-20 Lite, 20 watt module
- MSX-30 Lite, 30 watt module
- Light, rugged, easily mounted
- Tedlar[®]/EVA/stainless steel laminate construction
- 3 metre cable fitted

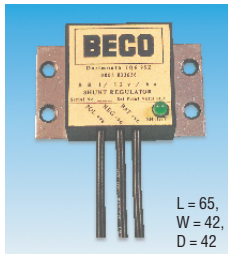
SOLAREX

Mfrs. List No.	L	W	D	Nom. Volts	Amps @ pp	Volts @ pp
SSX-10m Lite	440	270	20	12	0.580	17.1
MSX-30 Lite	620	500	20	12	1.750	17.1

OPT332

Mfrs. List No.	Order Code	Price Each
SSX-10m Lite	.653-974	1+
MSX-30 Lite	.653-998	

Solar Shunt Regulator



- 12 Volt, 6 amp solid state shunt regulator
- Temperature compensated
- Fully encapsulated
- LED status indication
- Blocking diode included

The BECO Solar Shunt Regulator is designed to limit the voltage to which a lead acid battery can be driven when on charge from a photovoltaic (solar) module or array. The unit is set to regulate at 14.6 volts and operation is indicated by an LED. Suitable for use with any 12 volt (nominal) module(s) up to a maximum of 6 amps.

BECO

L = 65,
W = 42,
D = 42

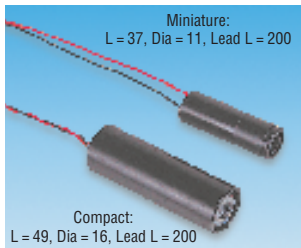
OPT333

Mfrs. List No.	Order Code	Price Each
BR1/12/6	.653-925	1+

Laser Diode Modules

Self-Contained

IMATRONIC



Miniature:
L = 37, Dia = 11, Lead L = 200

Compact:
L = 49, Dia = 16, Lead L = 200



Connections
Red = Supply +ve, Black = Supply -ve

A range of self-contained continuous wave visible laser diode modules. Applications include alignment, bar code readers, robotic control, target designation, positioning and security detection.

- Choice of output wavelengths: 633nm and 670nm
- Output power options: Class 2 (1mW), Class 3a (3, 5mW)
- Choice of housings: 11mm or 16mm
- User adjustable, focusing optics (tool supplied)
- Integral drive circuitry
- Output power stabilisation
- Reverse polarity protection
- LED emission indicator

Wavelengths: 633nm*, 670nm
Beam size at aperture (mm): Miniature - 4 2, Compact - 5 dia. (Class 2) 5 2 (Class 3a)
Focusing range (mm): Miniature - 35-∞, Compact - 150-∞ (Class 2) 20-∞ (Class 3a)
*Approximately nine times brighter than comparable 670nm versions.

Operating voltage: 4V to 6V DC

Operating temperature: -10°C to +40°C Storage temperature: -20°C to +65°C
Operational life: MTTF in excess of 10,000 hours at its operating temperature range

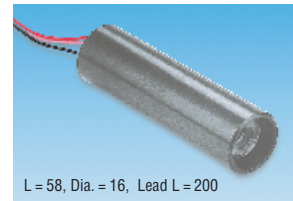
WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye.

<1mW visible - class II, 3mW & 5mW visible - class IIIa.

OPT224

Module Type	Order Code	1+	3+	5+
Miniature, 0.9mW, 670nm	280-458			
Miniature, 0.9mW, 633nm	491-925			
Miniature, 3mW, 670nm	280-460			
Miniature, 5mW, 633nm	623-313			
Compact, 0.9mW, 670nm	280-471			
Compact, 0.9mW, 633nm	491-937			
Compact, 3mW, 670nm	280-483			
Compact, 5mW, 633nm	623-325			

Self-Contained, Modulatable



L = 58, Dia. = 16, Lead L = 200



Connections

Red = Supply +ve, Black = Supply -ve
Pink = TTL modulation input

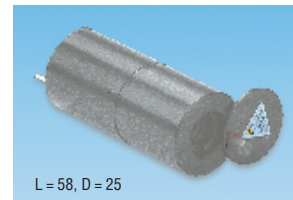
- Choice of output wavelengths: 633nm and 670nm
- Modulatable output power: between pre-set max. and 10% max.
- Reverse polarity protection
- Output power options: Class 2 (1mW) Class 3a (3mW)
- User adjustable focusing optics

WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye.
<1mW visible - class II, 3mW & 5mW visible - class IIIa.

OPT368

Module Type	Order Code	1+	3+	5+
Modulated, 0.9mW, 670nm	623-283			
Modulated, 0.9mW, 633nm	623-295			
Modulated, 3mW, 670nm	623-301			

Laboratory Series



L = 58, D = 25



- Choice of output wavelengths: 633nm and 670nm
- Integral, power switch and emission indicator
- User adjustable focusing optics
- Output power options: Class 2 (1mW), Class 3a (3mW)
- Shutter fitted to output aperture
- Reverse polarity protection
- Size compatible with 1" optical mounts

Self-contained compact Laboratory Diode Laser available in a choice of visible wavelength models. Ideal replacement for helium neon lasers in many scientific, educational and engineering applications, offering the benefits of superior ruggedness and compact size.

WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye.

1mW visible - class II, 3mW & 5mW visible - class IIIa.

OPT366

Module Type	Order Code	1+	3+	5+
Laboratory, 0.9mW, 633nm	623-222			
Laboratory, 3mW, 670nm	623-234			

Laser Cross Generator



L = 35, Dia. = 17
Overall length when fitted to a miniature laser diode module = 60

Typical cross size and line thickness (mm)* at 0.5metres: 50 1; 2 metres: 160 1.5
Operational wavelength range: 630nm - 820nm. Perpendicularity (two axis): <2 deg.

*Dependent on laser module power and ambient lighting.

OPT367

Laser Cross Generator	Order Code	1+	3+	5+
	623-246			