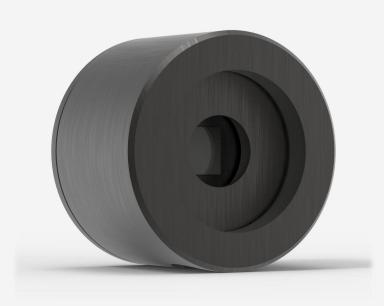


### QE8SP-B-MT-D0

Pyroelectric detector for laser energy measurement up to 0.93 m.]



### PRODUCT FAMILY KEY FEATURES

#### **VERY LOW NOISE LEVELS**

Noise levels of a photo detector, but with the high energies of a pyroelectric:

- 50 nJ with the MT coating
- 100 nJ with the BL coating

### 2 COATINGS AVAILABLE:

- BL: black coatings, sensitivity of 900 V/J, readings up to 400 Hz
- MT: metallic coating, sensitivity of 2400 V/J, readings up to 1000 Hz

0.09 kg

### SMART INTERFACE

Containing all the calibration data

#### **COMPATIBLE STAND**

STAND-D-233

## **SPECIFICATIONS**

### MEASUREMENT CAPABILITIES

Spectral range <sup>1</sup>	0.193 - 20 μm
Typical rise time	30 μs
Repeatability	<0.5%
Maximum repetition frequency	1000 Hz
Maximum measurable energy <sup>2</sup>	0.93 mJ
Noise equivalent energy <sup>3</sup>	80 nJ
Maximum pulse width	10 µs
Energy calibration uncertainty	±4.0 %

- 1. For the calibrated spectral range, see the user manual.
- 2. With MAESTRO.
- 3.3 nJ with M-Link and noise suppression algorithm. 50 nJ without noise suppression. See user manual for use with other displays and PC interfaces.

### DAMAGE THRESHOLDS

Maximum average power density <sup>1</sup>	1 W/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	50 mJ/cm²
Maximum power	0.5 W

- 1. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

### PHYSICAL CHARACTERISTICS

Cooling	Convection
Aperture width	7.8 mm
Aperture height	7.8 mm
Absorber	MT
Dimensions	38.1 Ø X 27.4D mm

ORDERING INFORMATION

Weight

QE8SP-B-MT-D0	201968
QE8SP-B-MT-INE-D0	
QE8SP-B-MT-INT-D0	202391
QE8SP-B-MT-IDR-D0	

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

# **INTERESTED IN THIS PRODUCT?**



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