

PYCKO SCIENTIFIC LIMITED

31 London Road, Grantham, NG31 6EX

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www.pycko.co.uk

Your Alternative
To The Obvious

Environmental Detector Data Sheet

The Environmental Detector or “E-style” scintillation detector is used in applications where thermal shock, mechanical shock, and mechanical vibration are important considerations. The “E-style” detectors are capable of withstanding temperatures up to 75°C. The “E-style” detector is capable of withstanding mechanical shock of up to 25 g’s.

For more rugged applications we recommend our “R-style” configuration.

Three “E-style” detectors are offered. The open face “EX-style” in which the customer supplies the PMT. The “ED-style” is supplied with a demountable PMT. The “EI-style” is supplied with an integrally mounted PMT.

All three styles are available in custom diameters and lengths.

The detectors are offered with either aluminium or stainless steel housing. The design utilizes a rolled glass-to-metal seal technology for ruggedness. An epoxy is used to provide the hermetic seal.

Each detector is heat cycled twice before shipment in order to verify the reliability of the detector. The detectors are heat cycled once during the manufacturing assembly process and then again during final quality testing.

Our test and validation process ensures that we will deliver a detector that meets your specifications.

The E-style detector is popular for several low temperature rugged environmental applications. This style detector can be used as either a gross counting tool or a spectroscopic tool.

Typical applications include:

- Shallow Hole Monitoring
- Perimeter Monitors
- Environmental Monitoring
- Stack Monitors
- Hand Held Probes
- High Temperature Industrial Process Measurements
- Geophysical Surveying

Several standard sizes are available. Additionally, we will be glad to discuss your custom application.



6EX4 and 8EX8 detectors are shown

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Specifications

Detector Style:	E-style, Open Face (no PMT) ED-style, Demountable PMT EI-style, Integrally Mounted PMT
Crystal Housing:	Aluminium or Stainless Steel
Photomultiplier:	As required by the application
Sizes:	Diameter: 0.5" to 2.5" Length: 0.5" to 12" Custom made to meet the customer's needs
Temperature Range:	-20°C to 75°C
Thermal Shock Gradient:	3°C/minute maximum
Mechanical Shock:	5g to 25g @ 11ms – 3 per axis (X and Z axis)
Detector Pulse Height Resolution:	8.5% or better at 662 KeV (Cs-137) (typical), as tested on a 2" PMT at at 25°C.