QL30 ambient temperature photomultiplier housings

1 QL30 series

The QL30 ambient housing is available for use with most end-window photomultipliers up to 30mm diameter.

It offers:

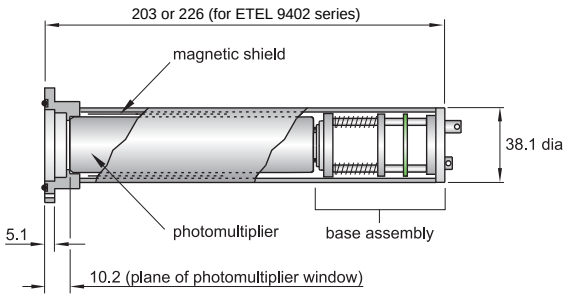
- a light-tight enclosure including socket, voltage divider and connectors
- electrostatic and magnetic screening
- high quality insulators and components to ensure optimum performance

The socket and voltage divider in the housing are chosen to suit the particular pmt being used, which must be specified when ordering. Unless otherwise stated, or requested, the voltage divider will have the standard configuration indicated in the corresponding pmt data sheet, and the value of 'R' will be 330kΩ

The default HV polarity is negative, so that the output is suitable for analogue or pulsed signal applications. However, for applications where the lowest noise is important it is recommended that positive HV be used. In this latter case, internal 100kΩ anode load resistor is incorporated and the signal taken out via a coupling capacitor. This configuration is only suitable for pulsed applications, such as photon counting.

Please note that some pmt types may also require a long barrel.

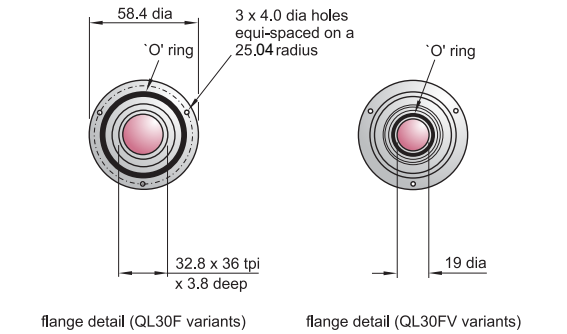
Housings are available with or without front mounting flange. RFI shielded versions are available for use in noisy environments and/or for very low signal conditions.



all dimensions in mm

2 QL30 features

- internally threaded front end
- combined electrostatic and magnetic shielding
- quick-release base assembly
- flanged version, QL30F, with integral 'O' ring, and light-tight seal
- the QL30FV version includes vacuum adaptors for coupling to vacuum systems



all dimensions in mm

3 QL30 specification

signal connector	BNC
HV connector	MHV (SHV optional)
divider R value	330kΩ (other values available)
HV polarity	- HV (+ve optional) (power supply can be integrated)
weight	260g

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