



# Serie PEO

Pyroelectric Sensors for OEM-Applications

These sensors are characterised by a high sensitivity and a high repetition rate. Because of the windowless design and the used metallic absorption coating an usage also in the UV-range is possible. The sensors PEO 8A and PEO 12A have a built-in preamplifier which improves the insensitivity

to interferences and avoids problems when using longer signal cables. If needed, for example when using the sensor at different wavelengths, we will also supply these sensors with our reliable, broadband black coating. The modular construction set EMK100 can be combined with PEO sensors.

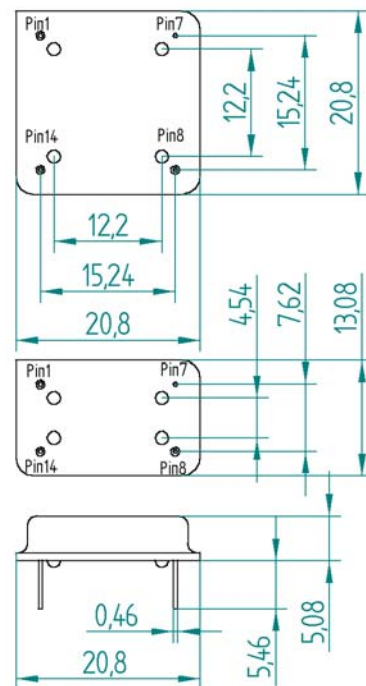
	PEO 8	PEO 8A	PEO 12	PEO 12A
Aperture	Ø 8 mm	Ø 8 mm	Ø 12 mm	Ø 12 mm
Rep. rate	1 kHz an 1 MOhm	10 kHz	700 Hz an 1 MOhm	3 kHz
Sensitivity	400..500 V/J an 1 MOhm	10000 .. 25000 V/J	300..400 V/J an 1 MOhm	4000 .. 6000 V/J



max. energy density	150 mJ/cm <sup>2</sup>
max. average power	0,5 W
Calibration uncertainly	±3 %
Temperature environment	10°C .. 50°C
Temperature coefficient	+0,1%/K

### Electr. parameters of Sensors PEO 8A and PEO 12A

Power supply	±5V .. ±20V
Noise voltage (Output)	2 mV
Offset	max. 50 mV
Offset compensation	AC-Coupling or with external amplifier
Solder time	max. 2 sec./Pin no hot air soldering!



	PEO8A / PEO12A	PEO8 / PEO12
Pin 1	+Vcc	NC
Pin 7	Ground	Ground
Pin 8	-Vcc	NC
Pin 14	Out	Out