

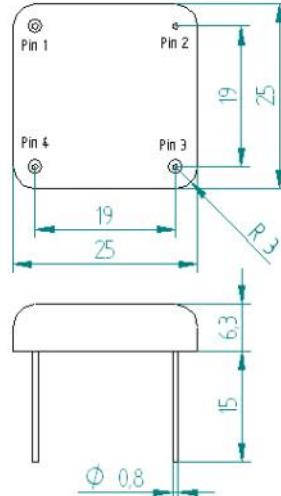
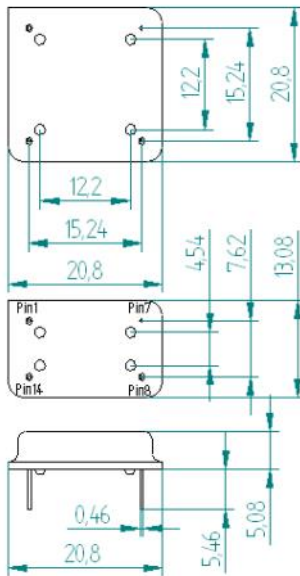
## OEM PEO

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.



	Aperture	Sensitivity [V/J]	Rep Rate [Hz]
PEO 8	Ø 8 mm	400..500 V/J at 1 MOhm 200..300 V/J at 100 kOhm	1 kHz at 1 MOhm 10 kHz at 100 kOhm
PEO 8 A	Ø 8 mm	10000 .. 25000 V/J (by order)	10 kHz
PEO 8 B	Ø 8 mm	300..400 V/J at 1 MOhm 200..300 V/J at 100 kOhm	750 Hz at 1 MOhm 1 kHz at 100 kOhm
PEO 12	Ø 12 mm	300..400 V/J at 1 MOhm 200..300 V/J at 100 kOhm	700 Hz at 1 MOhm 6 kHz at 100 kOhm
PE12 A	Ø 12 mm	4000 .. 6000 V/J (by order)	3 kHz
PEO 12 B	Ø 12 mm	20..40 V/J at 1 MOhm 10..20 V/J at 100 kOhm	500 Hz at 1 MOhm 750 HHZ at 100 kOhm
PEO 20	Ø 20 mm	100..160 V/J at 1 MOhm 70..120 V/J at 100 kOhm	250 Hz at 1 MOhm 2 kHz at 100 kOhm
PEO 88	8 x 8 mm <sup>2</sup>	2..3 V/J at 50 Ohm	250 kHz at 50 Ohm



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

PEO 20	
Pin 1	NC
Pin 2	Ground
Pin 8	NC
Pin 14	Out

- max. energy density 50 mJ/cm<sup>2</sup>
- max. average power 0,5 W
- Calibration uncertainty ±3 %
- Temperature environment 10°C .. 50°C
- Temperature coefficient +0,1%/K
- Power Supply (only PEO8A and PEO 12A) ±5V .. ±15V



## Highspeed sensor PEO 88

These sensors are designed for highest repetition rates. Applied with a metallic coating these sensors allow repetition rates up to 250 kHz, according to the load resistor. One highlight is the relatively large aperture for such high repetition rates.



- active area 8mm x 8mm
- max. energy density 50 mJ/cm<sup>2</sup>
- max. average power 0,5 W
- Calibration uncertainty ±3 %
- Temperature environment 10°C .. 50°C
- Temperature coefficient +0,1%/K