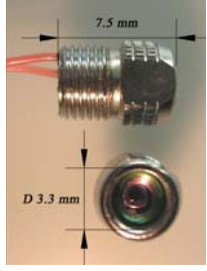
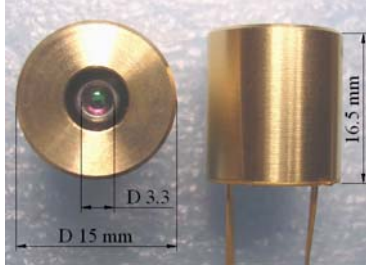

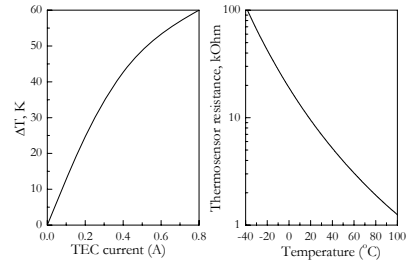


Optically Immersed 1.9 μm photodiode			PD19Sc
Peak wavelength	λ	μm	1.9
Cutoff wavelength (10 %)	λ_{co}	μm	2.05
Detectivity	$D^*_{\lambda_{\text{max}}}$	$\text{cmHz}^{1/2}\text{W}^{-1}$	$(0.7\div 1)\times 10^{11}$
Current sensitivity	S_I	A/W	0.3 \div 0.5
Voltage sensitivity	S_U	V/W	3000 \div 6000
Resistance at zero bias	R_0	Ohm	10 \div 20 k
Switching time	τ	ns	≤ 20

Code	Thread	Sensitive area, mm	Lens material	Angle of view FWHM, deg.	Operation (storage) conditions, °C	Polarity
PD19Sc	M5 \times 0.5	\varnothing 3.3	Si	≤ 20	-25 \div +60 (+80)	short wire or black point is negative
PD19TO8TEC			Si lens and quartz window			See fig. below

	PD19Sc	PD19TO8TEC
Product view		  <p>1 TEC -; 4 TEC + 8 PD +; 13 PD - 10, 11 thermosensor, 16 PD house</p> 

- ✓ Angle of view of the PD is small and thus we recommend adjusting PD position before final evaluation/use of the devices. All data in spec. are valid for room temperature (22°C).
- ✓ PD could be equipped with preamplifier. Preamplifier has been designed for conversion of PD photocurrent into a convenient output voltage. Normally each preamplifier is adjusted for the particular PD and specifications issued by a customer (e.g. taking into account the R_0 value and frequency range).
- ✓ The maximal cooling in PD19TO8TEC mounted onto a heatsink is around $\Delta T = -50$ K (at current through TEC of 0.8 A)

