

Quartz depolarizers convert linearly polarized input beams into unpolarized beams and are used in front and behind of measurement equipment that must avoid polarization.

- 1N type is made of single optical quartz plate. It has a wider transmission range, but has a larger beam deviation due to the 2 degree wedge shape.
- 2S type consists of cemented plates of optical quartz and synthetic fused silica. It does not have beam deviation, but the transmission range is not as wide as the single type.
- OP type consists of optical contact. It has a wider transmission range without beam deviation.
- It is similar to waveplate and mounted in a frame of  $\phi 30\text{mm}$  diameter.

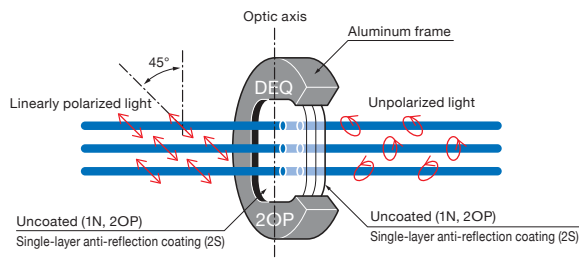


Specifications	
Material	Optical Grade Crystalline Quarts Synthetic fused silica
Material of frame	Aluminum Finishing: Black anodized
Surface Quality (Scratch-Dig)	40-20

### Attention

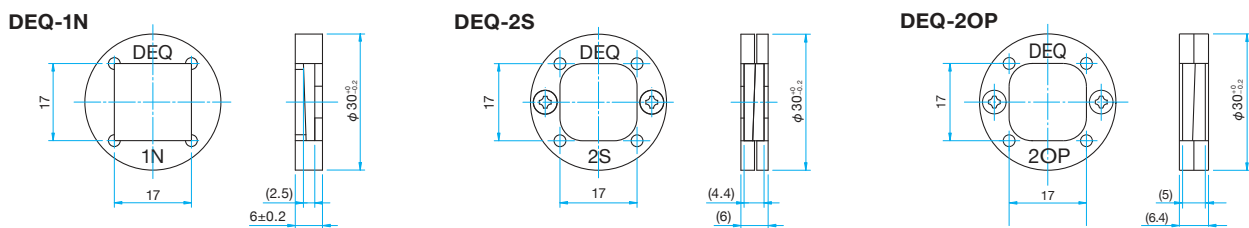
► Custom Quartz depolarizers are available, contact our Sales Division for products not list on-line or in our catalog.

### Schematic



### Outline Drawing

(in mm)



### Specifications

Part Number	Wavelength Range [nm]	Material	Thickness of Optics [mm]	Laser Damage Threshold* [J/cm <sup>2</sup> ]
DEQ-1N	180 – 3500	Optical Grade Crystalline Quarts	2.5 (Maximum)	—
DEQ-2S	350 – 2500	Optical Grade Crystalline Quarts Synthetic fused silica	4.4	0.3
DEQ-2OP	180 – 3500	Optical Grade Crystalline Quarts	5.0	1

\* Laser pulse width 10ns, repetition frequency 20Hz

### Compatible Optic Mounts

PH-30-ARS / SPH-30-ARS