

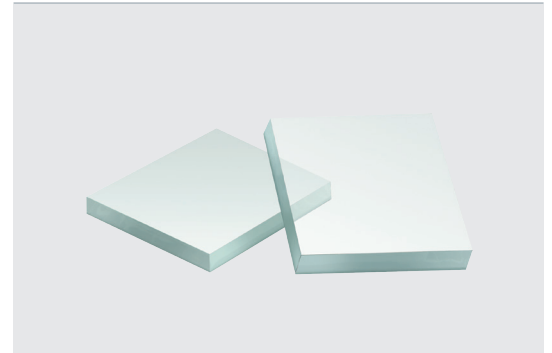
Transflex™ – Neutral Beamsplitter

A Beam will be Highly Uniformly Splitted into a Reflected and a Transmitted Component

The splitting occurs uniformly on the entire mirror surface. Therefore the beam splitter can be installed in any location of a light path under an angle of 45° without interfering the optical imaging.

The Neutral Beamsplitters are composed of absorption free dielectric coating.

All Neutral Beamsplitters are available with a broadband antireflection coating on the rear side, on request.



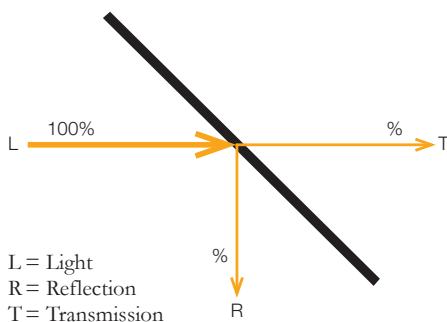
Benefits

- Absorption-free
- Excellent environmental resistance
- Highly scratch-proof
- Neutral over the visible wavelength range

Applications

- Projection equipment
- Light barriers
- Optical sensors

Transflex™ working principle



Technical Data

The Neutral Beamsplitters are identified by their maximum spectral reflectivity at 550 nm \pm 5%.

Bandwidth:

450 nm–650 nm for glass

Other wavelengths are available on request.

Standard glass

Corning Eagle XG

Dimension

160 · 110 + 0, –0.5mm · 1.1 \pm 0.1 mm

Customized dimensions are also available.

Reflection (R) in %	Transmission (T) in %
10	90
15	85
20	80
25	75
33	67
40	60
45	55
50	50
55	45
66	34
75	25

Environmental test according to MIL-C-675A

para. 4.6.8	salt solution, 24 h in 4.5% NaCl
para. 4.6.9	humidity, 24 h 49 °C at >95% r. H.
para. 4.6.10	salt fog, 24 h in 4.5% NaCl
para. 4.6.11	hardness, cheesecloth 50 strokes