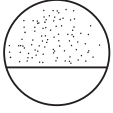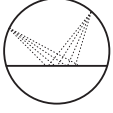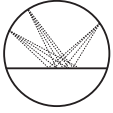# IP Degrees

First digit
6: Dust tight. No ingress of dust.

Second digit
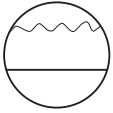**5:** Protected against jets of water from any direction.

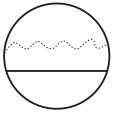**6:** Protected against powerful jets of water. Prevents ingress sufficient to cause harm.

Switches that fullfill the requirements of IPX6 also fullfill the requirements for IPX1 to IPX5.

7: Protected against the effects of temporary immersion in water (submerged for 30 minutes at 1m depth).

8: Protected against the effects of continuous immersion in water (submerged for more than 30 minutes at more than 1m depth, to be specified).

Extended IP (eIPxx) for harsh enviroments
C: Cleaning chemicals added to water, depth and duration to be specified.

O: Duty cycle operated under water, depth to be specified.

Extended IP digits can be combined.

Engelking