

## IP Ratings Options

The standard IP rating for Exlar® actuators is IP54S or IP65S. Ingress protection is divided into two categories: solids and liquids. The three digits following IP represent different forms of environmental influence:

The first digit represents the level of protection against ingress of solids

1. Protected against solid objects over 50 mm (hands or large tools, etc.)
2. Protected against solid objects over 12.5mm (hands, large tools, etc.)
3. Protected against solid objects over 2.5 mm (wire, small tools, etc.)
4. Protected against solid objects over 1.0 mm (small gauge wire, etc.)
5. Limited protection against dust ingress
6. Totally protected against dust ingress

The second digit represents the level of protection against ingress of liquids

1. Protected against vertically falling drops of water or condensation
2. Protected against falling drops of water, if the case is positioned up to 15 degrees from vertical

3. Protected against sprays of water from any direction, even if the case is positioned up to 60 degrees from vertical
4. Protected against splash water from any direction
5. Protected against low-pressure water jets from any direction (limited ingress permitted)
6. Protected against high-pressure water jets from any direction (limited ingress permitted)
7. Protected against short periods (30 minutes or less) of immersion in water of 1 m or less
8. Protected against long periods of immersion in water
9. Protected against high-pressure, high-temperature wash-down applications

The last (suffix) digit represents the device status during the test

- S - Device standing still during test
- M - Device moving during test