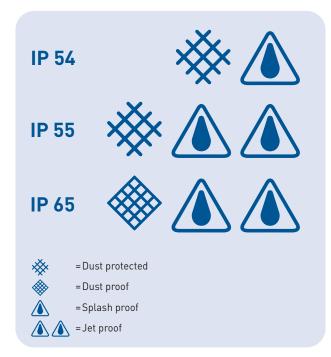
IP Protection

Degrees of protection (IP) against water and contact provided by enclosures according to EN 60529

NormStandard EN 60529 describes the test procedure for degrees of protection. Depending on the degree of protection, the product is sprayed with a predetermined water pressure and a certain amount of water from a distance of about 3 m. This test takes only a few minutes and does not include spraying the product with a high-pressure cleaner. Constant spraying with water or installation outdoors requires provides additional protective measures.

Caution

The degrees of protection describe only the protection against the ingress of dust or water in an environmentally acceptable composition. For aggressive compositions, such as alkaline solutions, solvents, salt water, cement dust, etc. a specified enquiry is required.



IP degrees and their significance

| Component | Code numbers or letters | Significance for protection of equipment | Significance for personal protection |
|--------------|-------------------------|---|---|
| Code letters | IP | | |
| First digit | | Against ingress of solid foreign objects: | Against access to hazardous parts (with): |
| | 0 | No protection | No protection |
| | 1 | ø ≥ 50,0 mm | Back of hand |
| | 2 | ø ≥ 12,5 mm | Finger |
| | 3 | ø ≥ 2,5 mm | Tools and wires ø ≥ 2,5 mm |
| | 4 | ø ≥ 1,0 mm | Tools and wires ø ≥ 1,0 mm |
| | 5 | Dust protected | Full protection |
| | 6 | Dustproof | Full protection |
| Second digit | | Against ingress of water: | |
| | 0 | No protection | |
| | 1 | Vertically dripping | |
| | 2 | Dripping water (up to 15° from vertical) | |
| | 3 | Spray water (up to 60° from vertical) | |
| | 4 | Splash water (from any direction) | |
| | 5 | Jet water (from any direction) | |
| | 6 | Powerful jet water (from any direction) | |
| | 7 | Temporary immersion | |
| | 8 | Submersion | |

When dealing with quotations, customer specifications, etc., check to verify, if required degrees of protection differ in any way from the details given in the GfA catalogue.

0.060 Subject to alterations. (23_Le)

