



ISOLED KNOWLEDGE

**IP
PROTECTION
CLASS**

ISOLED[®]

CUSTOMISED LIGHT SOLUTIONS



IP PROTECTION CLASS

The IP digits indicate the protection of the housing against contact or ingress of foreign bodies (1st digit) and against the ingress of moisture or water (2nd digit) on. IP stands for Ingress Protection. The larger the figures, the better the housing is sealed. The first digit ranges from 0 to 6 and the second from 0 to 8. Digit 0 means no protection whatsoever. Digits in detail with reference to the example IP65 (according to DIN EN 60529).



1. DIGIT Contact / Foreign bodies ingress protection

0	No protection
1	Protected against access with manual pressure (Diameter > 50 mm)
2	Protected against access with a finger (Diameter > 12.5 mm)
3	Protected against access with a tool (Diameter > 2.5 mm)
4	Protected against access with a wire (Diameter > 1 mm)
5	Complete protection against contact (against dust in harmful quantities)
6	Complete protection against contact (Dustproof)

2. DIGIT Water ingress protection

0	No protection
1	Protection against vertically falling water drops
2	Protection against dripping water if the housing is up to 15° fiddled
3	Protection against falling spray water up to 60° from the vertical
4	Protection against splashing water
5	Protection against water jets (nozzle) from any angle
6	Protection against powerful water jets
7	Protection against temporary immersion
8	Protection against permanent immersion

