NIMBUS MODUL Q 36 installation

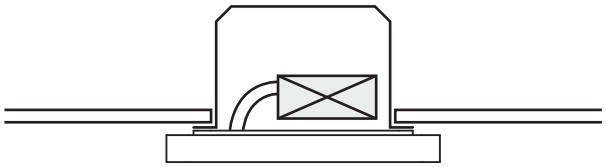
GUIDELINE FOR INSTALLATION OF CONVERTERS

Nimbus MODUL Q 36 LED.next luminaires are state-of-the-art products meeting the latest demands of the market. They are available in a variety of versions which cover the whole range of applications: direct mounting for plasterboard or a suspended ceiling, mounting in porous material or in concrete with a suitable ceiling junction box, fitting on the ceiling with a surface-mounted housing including or without integrated converter and as ,,intelligent'' luminiare with presence detector and ambient light sensor (PDLS).

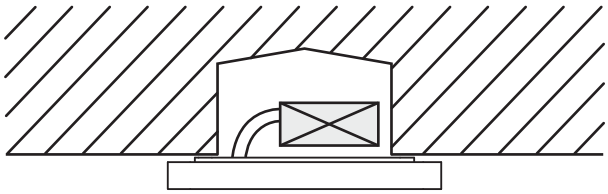
converter configuration

These applications are typical for MODUL Q 36 recessed luminaires:

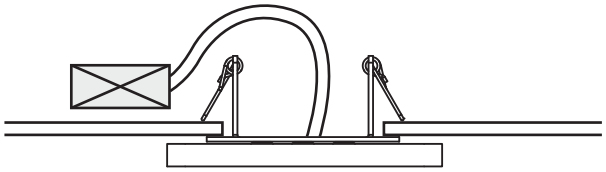
- standard ceiling junction box Ø 68 mm with converter



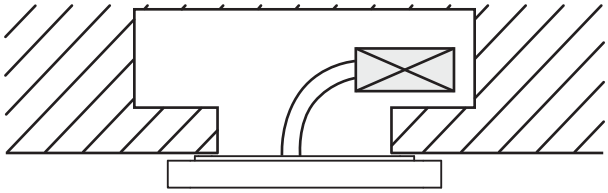
- ceiling junction box for concrete / exposed concrete



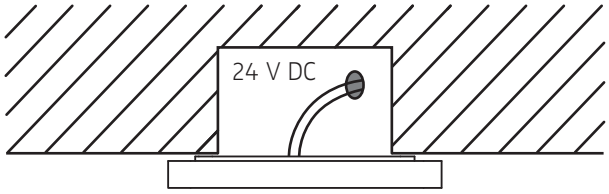
- cavity mounting with inserted converter



- direct mounting with room for converter



- direct mounting with external central converter
(e.g. mounted in distribution cabinet / on top-hat rail)



guideline for positioning of converters

When integrating a converter in a suspended ceiling or a ceiling junction box, you have to ensure sufficient air circulation by all means. This is even more important in the context of an air-tight installation with so-called ,,sustainable'' junction boxes which provide an effective thermal insulation.

heat generation of an LED luminaire

Nimbus LED.next luminaires can be mounted on nearly every material (including wood) because the temperature on the back of the luminaire does not exceed 70° C. However, this mounting situation changes when the luminaire is operated together with its converter in a poorly ventilated ceiling junction box: the operating temperature of the luminaire cannot escape and adds to the thermal discharge of the converter. The thermal fuse of the converter trips at a temperature of approximately 80° C and interrupts the power supply for security reasons - a reliable continuous operation can no longer be ensured under these circumstances.

recommendations for use of MODUL Q 36 in professional continuous operation

To ensure reliable continuous operation in professional applications we generally recommend an external converter at an appropriate position. This kind of central converter can be placed easily accessible in a distribution cabinet and is also available for mounting on top-hat rails e.g. in fuse boxes. Please keep in mind that this solution also requires sufficient air ventilation. In addition to this, the cable sizing of the 24 V supply cords must be levelled up according to the used cable length to avoid line losses. You will find further information about this on our homepage: www.nimbus-group.com