

MODERN DISTRIBUTION BOX TERMINAL BLOCK

ORCAVE

DB580/1F6

When building the infrastructure of cities, one of the weakest points is the old (traditional) terminal blocks at the foot of the poles, which are only suitable for connecting power cables. But intelligent infrastructure is primarily a network of controlled appliances, which requires "a lot of holes" to power everything possible. Distribution box type terminal blocks are the answer to these needs.



mechanical design

Design	distribution boxes with color-coded protective covers mounted on a DIN rail
Dimensions	330 x 70 x 50 mm
Material	metal core with plastic cover
Opening	color cover can be lifted or removed
Fixing	screws to the niedax rail at the foot of the column
Terminals	3x 16mm ² (through), 4x 4mm ²
Modular concept	the number of modules can be changed as needed

color differentiation

Stage	red cover
Earth	blue cover
Protection	gray cover, connected with protection clamp

electrical properties

Current	up to 80A per module for 450V
Protection	yellow-green terminal conductively connected to DIN rail
Fuse	6A fuse (replaceable)

Design

Each distribution module accommodates up to 3 wires with a cross-section of 16 mm². In addition to the classic connection of cables between 2 light points, it can also create a T branch. The wire is pulled through a worm with a nimbus lock. For connecting consumers, there are up to 4 terminals on each module for wires from 1.5 to 4 mm². Fixation again through the nimbus. The design allows handling even when the cover is closed thanks to the through holes. The number of distribution boxes can be easily changed. The assembly is protected by a green-yellow grounding clamp, which ensures protection against contact with its mechanism. The upper part of the DIN rail is used for fixing control elements (e.g. Orcave 303-111, 313-112, etc.) using a facet.

Functions

The terminal box places greater demands on the preparation of power conductors, which must be shaped appropriately before fixation. Considering that the power cables are no longer used for the lifetime of the light, it pays to do it well. The reward is easy handling of other cables that are in the column. For example, in the case of a SMART solution, not only the power supply, but also the control phase is connected. If the pole will be fitted with a PowerCon connector, public address system, radar, cameras, etc., then the additional terminals offered by the terminal block will be used with advantage. Fuse boxes can be easily added to the DIN rail, so unlocking other appliances is clearly in one place.