

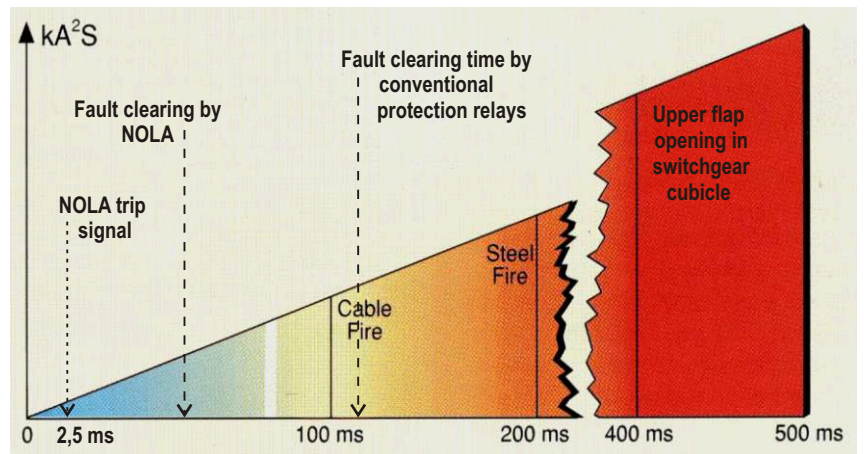
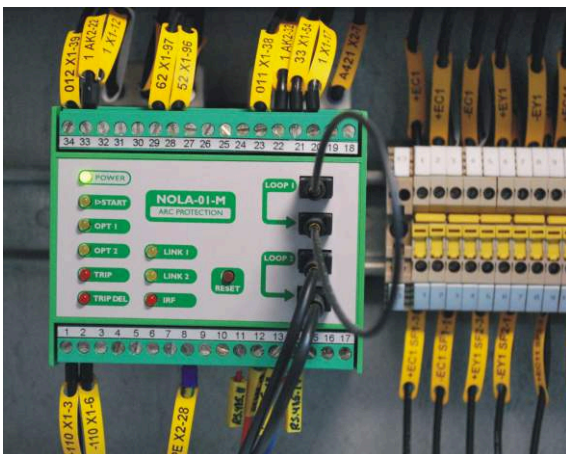
## ARC PROTECTION SYSTEM **NOLA**

The arc protection relay NOLA-01-M and the extension unit NOLA-02-S are designed to be used for the protection of medium and low-voltage switchgear to increase personnel safety and minimize equipment damage. The central unit type NOLA-01-M operates independently or together with the extension unit NOLA-02-S. This unit helps to create selective arc protection system increasing number of sensors and extending the area to be protected.

### FEATURES



- ✓ Three-phase overcurrent function - as additional criteria for trip decision
- ✓ Loop-type fibre or optical arc sensor for arc detection
- ✓ 2 High-speed semiconductor outputs for fast tripping ( $\leq 2,5$  ms), much faster then conventional protection relays
- ✓ 2 Relay outputs for tripping signalization and circuit breaker failure protection
- ✓ 2 RJ45 ports for the connection of slave units
- ✓ Continuous self-supervision and monitoring of sensor fibres, operating voltages and cabling between master units and slave units
- ✓ Selective tripping of the faulted feeder (with NOLA-02-S)
- ✓ The sensor capacity of the system can be increased simply by adding required number of slave units



Arc duration and resulting damage

In an arc situation, the fault place is quickly localized by inspecting the area covered by the sensor fibre that detected the arc.

The trip output is provided with two high-speed, galvanically isolated IGBT semi-conductor outputs, HSO1 and HSO2, and a relay output TRIP3. These outputs can be used in DC and AC circuits.

The system reacts only to fast light changes and automatically adapts itself to the surrounding light background. Maximum sensitivity of the light sensors is found in the infrared range of spectrum. The system permanently checks light fibre loops. If it finds broken light fibre, signal relay becomes active. This relay also becomes active if there is a power failure or interruption in the communication with the expansion modules.

