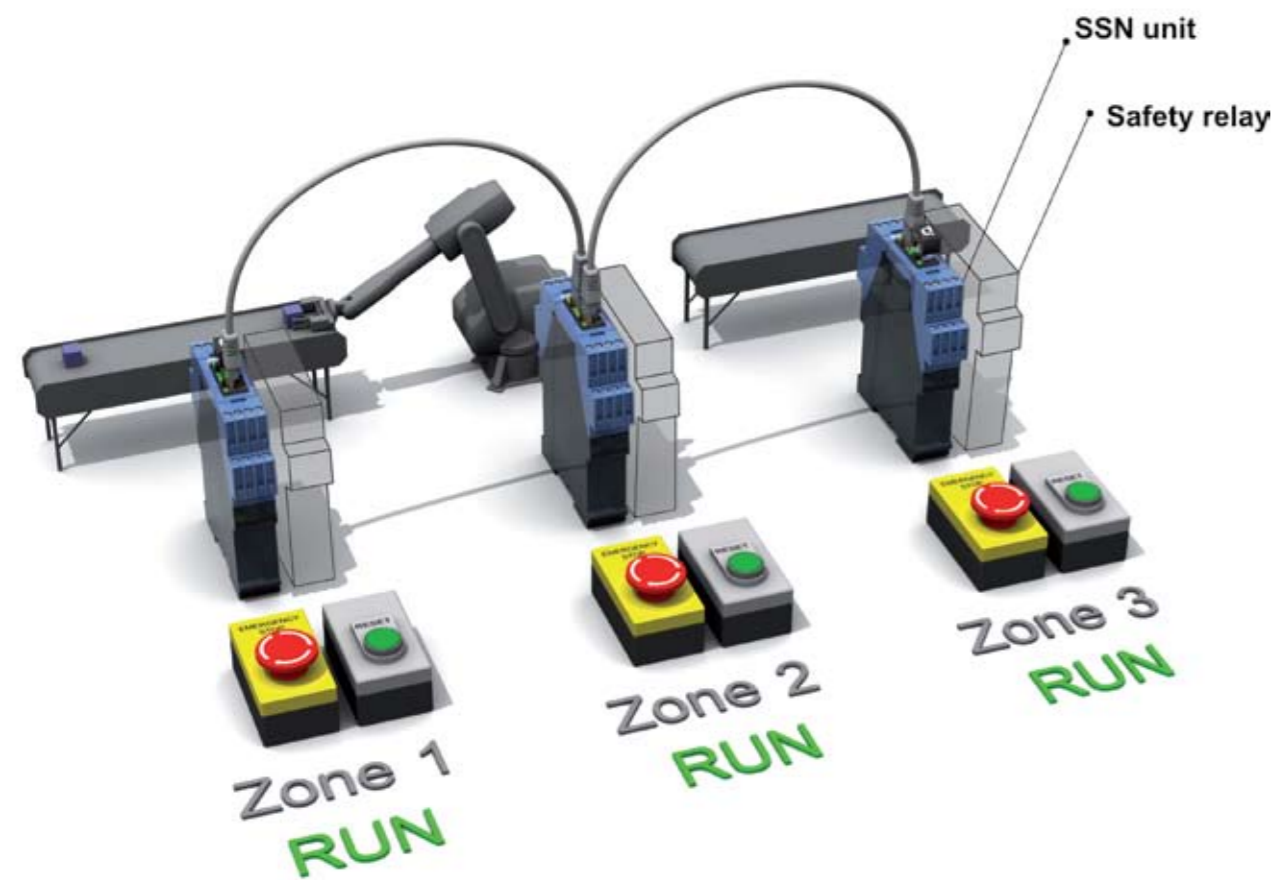


The SSN-2001 modules are now connected with the safety relays in a manner that the SSN-2001 module can also interrupt the safety circuit (channel 1 and 2 of the safety relays). Furthermore the SSN module takes over the control of the RESET channel of the safety relays. The safety relays can now be interrupted by the connected protective device (e.g. an EMERGENCY Switch) or by the SSN module.



Ever since Duelco A/S started in 1974, our aim has been to provide good service with a high standard of technical know-how, high quality products and top-line supply capability. In other words we want to be "partners in perfection" and thus become a true partner for our customers when it comes to competent, innovative and overall economic solutions.



Through more than 20 years Duelco A/S has been concerned with machine safety. To a great extent this is due to the fact that we are the only Danish producer of safety relays, which are exported worldwide. Duelco's strength consists of the comprehensive 'know-how' in design philosophy and requirements of standards, which are translated into market conforming products in our development - and design department. Fertile team-work with customers and distributors has shown us the way to products specifically suited to customer needs.



SMART SAFETY NET

Duelco A/S
Mommarmvej 5
DK-6400 Sønderborg

Duelco A/S
Systemvej 8
DK-9200 Aalborg SV

Tlf. +45 70 10 10 07
Fax +45 70 10 10 08
info@duelco.dk
www.duelco.dk

duelco
partners in perfection

duelco
partners in perfection

Duelco

SMART SAFETY NET

With the safety communication module Smart Safety Net (short SSN) Duelco has developed a complete new safety concept. The SSN is a data bus that can be used in safety systems. The basic idea of the SSN is to link safety systems (safety relays) in an easy and safe way.

By use of the data bus technology the time and effort for wiring is reduced considerably – not only on the place of installation, but also in the electric control cabinet.

Therefore you do no longer need to replace the safety apparatus (safety relays) that are installed in the various machine parts, but just need to connect the single safety relays to each other through the SSN Network. The user achieves a cost saving way of reaching the highest safety level possible – however, only the safety level similar to the safety relays that are being used in the network, can be achieved.



SAFETY | COMMUNICATION | TECHNICAL KNOW-HOW | COMPLETE NEW SAFETY CONCEPT

The SSN system also makes it possible to build safety groups. Thereby it is possible only to turn off one part of a facility to carry out maintenance etc. The function of the rest of the facility will be obtained. In every group one or more SSN modules can be connected. Thereby every group can be evaluated separately.

The Duelco SSN require no IP address, no special knowledge, no special cables, no special tools and no IT personnel interfering with your project. These units are truly plug & play and work right out of the box. It's as easy as Configure, Snap, Screw and Click.

Configure the SSN simply via DIP switches – you only have to select which zones it has to react on, reset type and stop configurations.

Snap the SSN unit to your DIN rail.

Screw in your power connections and the wires to monitor the safety module which is controlled by the SSN.

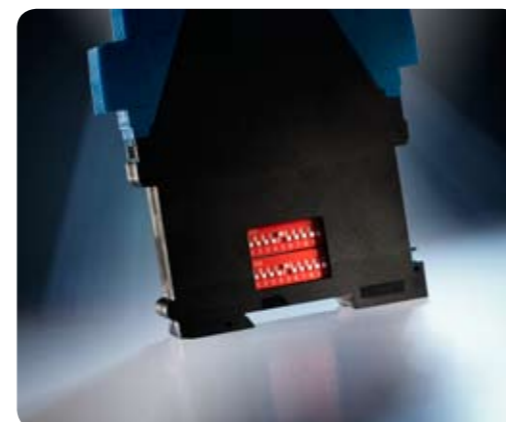
Click in your ethernet cable

That's it

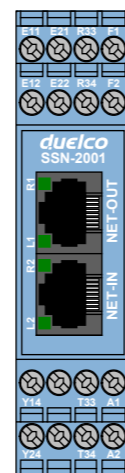
– you are up and running in just minutes.

THE CONFIGURATION - 7 EASY STEPS

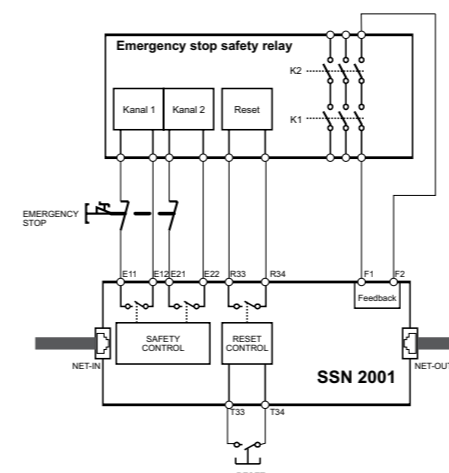
- VIA DIP-SWITCHES
- 1: Configure which zone / group the SSN-module belongs to
 - 2: Configure the reset type (local or global reset)
 - 3: Configure the local / global STOP behavior
 - 4: Configure which zone / group the SSN-module has to react on
 - 5: Configure the reset mode (automatic, manual or monitored reset)
 - 6: Snap the SSN-module to your DIN rail
 - 7: Connect the SSN-module to the safety module and power supply



FRONT LAYOUT



CONNECTION EXAMPLE



TECHNICAL DATA / SPECIFICATIONS

- Up to 4 zones can be configured
- No need for configuring software
- Easy to install
- Easy to extend
- Up to 25 units can be connected in the network
- It is possible to achieve a cable length up to 300 m between each unit
- Network connection: RJ45 cable min category 5e UTP
- RS 485 Baudrate at 0,5MB/s
- Response time of the SSN-system: < 85 ms
- Min. respons time at nominal voltage: < 50 ms
- Manual monitored reset, monitored reset or automatic reset
- LED indication of power on and dynamic signals
- 2 transistor outputs for status indication
- Dual-channel structure of safety section
- Requirements for connected safety relay: Cut in < 250ms; cut out < 60m
- International approvals by BG & cUL
- Fulfills the requirements in, EN 954-1 up to and including Cat 4, IEC 61508 up to and including SIL 3, EN 13849-1

ORDER INFORMATION

Article name	Article number	Article description
SSN-2001 24V DC	42010202	Communication module

