

Модуль безопасности CS AR-95

Технические характеристики

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Казахстан +(727)345-47-04

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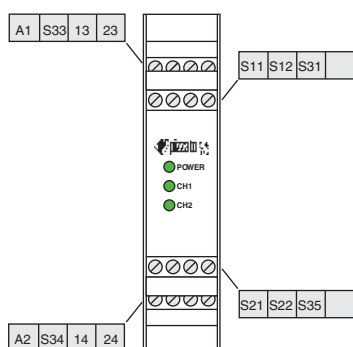
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эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>

CS AR-95 safety module

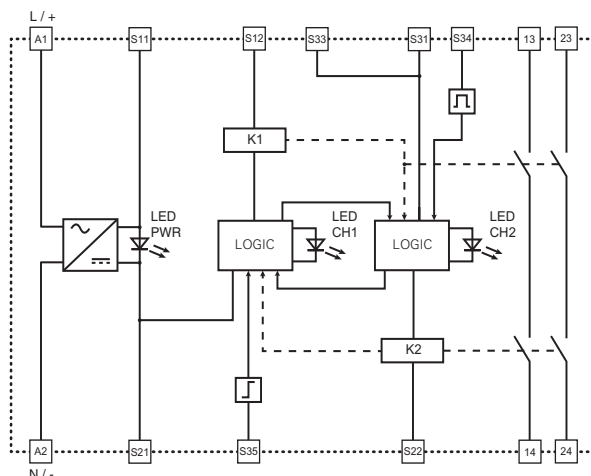
Pin assignment



Voltage dips, short interruptions and voltage variations

The CS AR-95 safety module has a built-in voltage drop sensor which serves to protect and safeguard the internal state of the safety relays, in the event of dips or short voltage interruptions. This is to prevent unwanted switching states in relation to the state of the inputs from occurring. When voltage is restored, the device continues to operate with a switching state that is consistent with the input signals. The safety module retains its normal function during voltage dips and brief interruptions; for longer voltage interruptions, the safety outputs open and reset themselves automatically during an automatic start if voltage is restored or – in the case of a manual or monitored start – require that the system be reset by the operator.

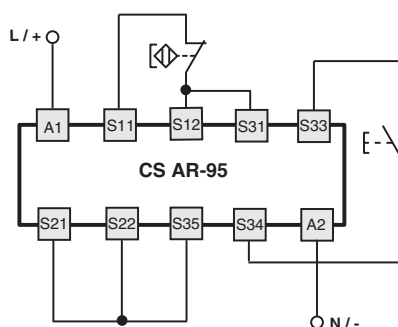
Internal wiring diagram



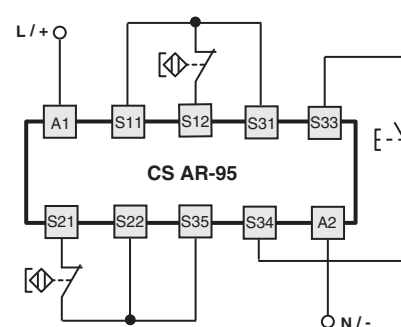
Input configuration

Input configuration with magnetic sensors

1 channel

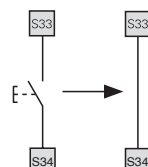


2 channels



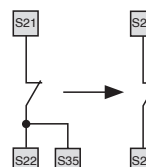
Automatic start

With regard to the indicated diagrams, bridge the start button between S33 and S34 in order to activate the automatic start module.



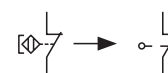
Monitored start

With regard to the indicated diagrams, remove the connection between the S22 and S35 terminals in order to activate the monitored start module.



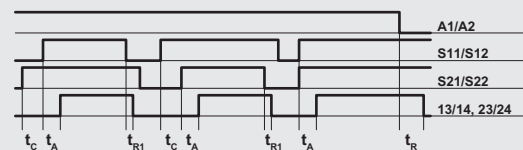
Electromechanical switches

The safety module can control both magnetic sensors and electromechanical switches. Replace the sensor contacts with switch contacts.



Function diagrams

Configuration with automatic start



Configuration with monitored start



Configuration with manual start



Legend:

t_{MIN} : Min. duration of start impulse
 t_C : simultaneity time
 t_A : response time
 t_{R1} : release time
 t_R : release time in absence of power supply

Notes:

The configurations with one channel are obtained taking into consideration the S11/S12 input only. In this case it is necessary to consider time t_{R1} referred to input S11/S12, time t_A referred to the supply, time t_A referred to input S11/S12 and to the start, and time t_{MIN} referred to the start.

Dimensional drawings, housings features

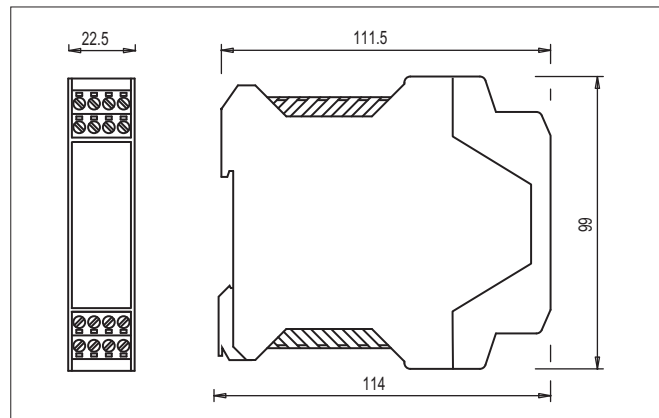
Design A, housing width 22.5 mm

Connection data

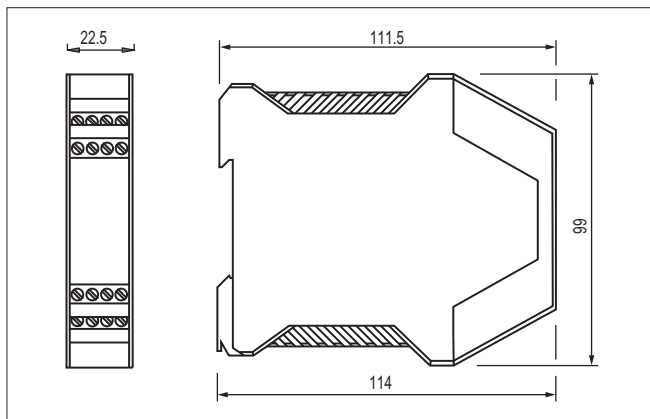
Terminal tightening torque: 0.5 ... 0.6 Nm
 Cable cross section: 0.2...2.5 mm²
 24...12 AWG

Installation

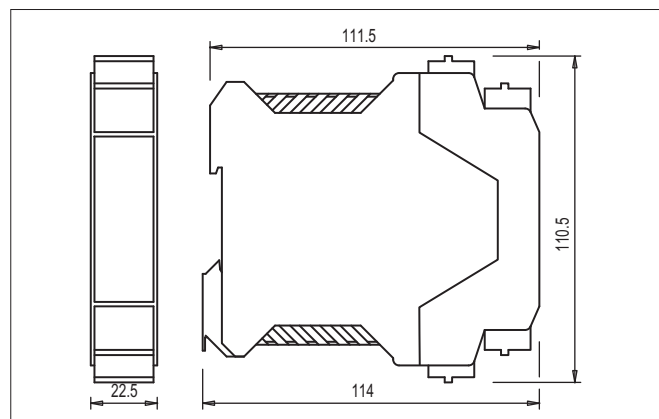
Snap-mounting on DIN rails



Connector with screw terminals



Screw terminals



Connector with spring terminals

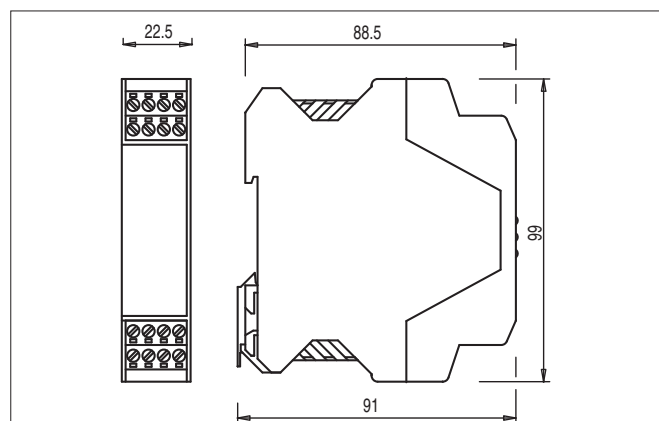
Design D, housing width 22.5 mm

Connection data

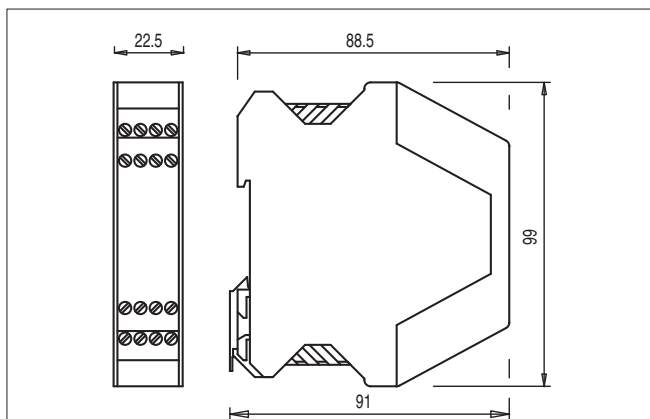
Terminal tightening torque: 0.5 ... 0.6 Nm
 Cable cross section: 0.2...2.5 mm²
 24...12 AWG

Installation

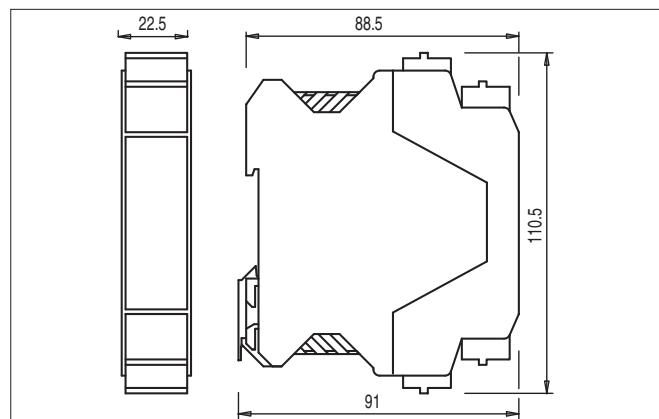
Snap-mounting on DIN rails



Connector with screw terminals



Screw terminals



Connector with spring terminals

All values in the drawings are in mm



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