



STEMOR

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TE/248/883995/15

Data:

Miejsce:



ADAP 2110.02018
PKN EN ISO 9001:2015



07/09/2020

Szczecin

Remote relay control system Mark: ST-PPSG-1.0-16CH

ST-PPSG-1.0-16CH Remote relay control system is design to pass input state from one place to output state in another place. Using only 8 wires for 16ch operation. Advanced fail safe system along with output relay controls allow ST-PPSG-1.0-16CH to be used in safety critical systems, like: emergency shutdown, engine controls, hydraulic unit controls; in industry environment.

System is built from 2 devices:

- a. Input board (SGPBB) – Main board that receive input signals, manage communication and system power. Input board is made form STEMOR signalization column driver board (SGKP) with additional baby board mounted on top extending operation to 16ch and 2 x RS485
- b. Output board (PPSG) – slave board that control 16 individual relays, powered from SGPBB

ST-PPSG-1.0-16CH is design for 24VDC power supply. It can operate safety in range from 17 to 34V, but fault indication occur if voltage drops below 18V and rise above 32V (absolute maximal rating is 36V). Inputs are optically isolated and require external power to trigger channels powered from 24VAC/DC. Boards communicate using two RS485 independent lines with power control. Outputs are relay type (NC, NO, COM), with operation indication and control.

System is intended to build into electric cabinet, and do not have any chassis. Its default delivered with DIN mounting shrouds.



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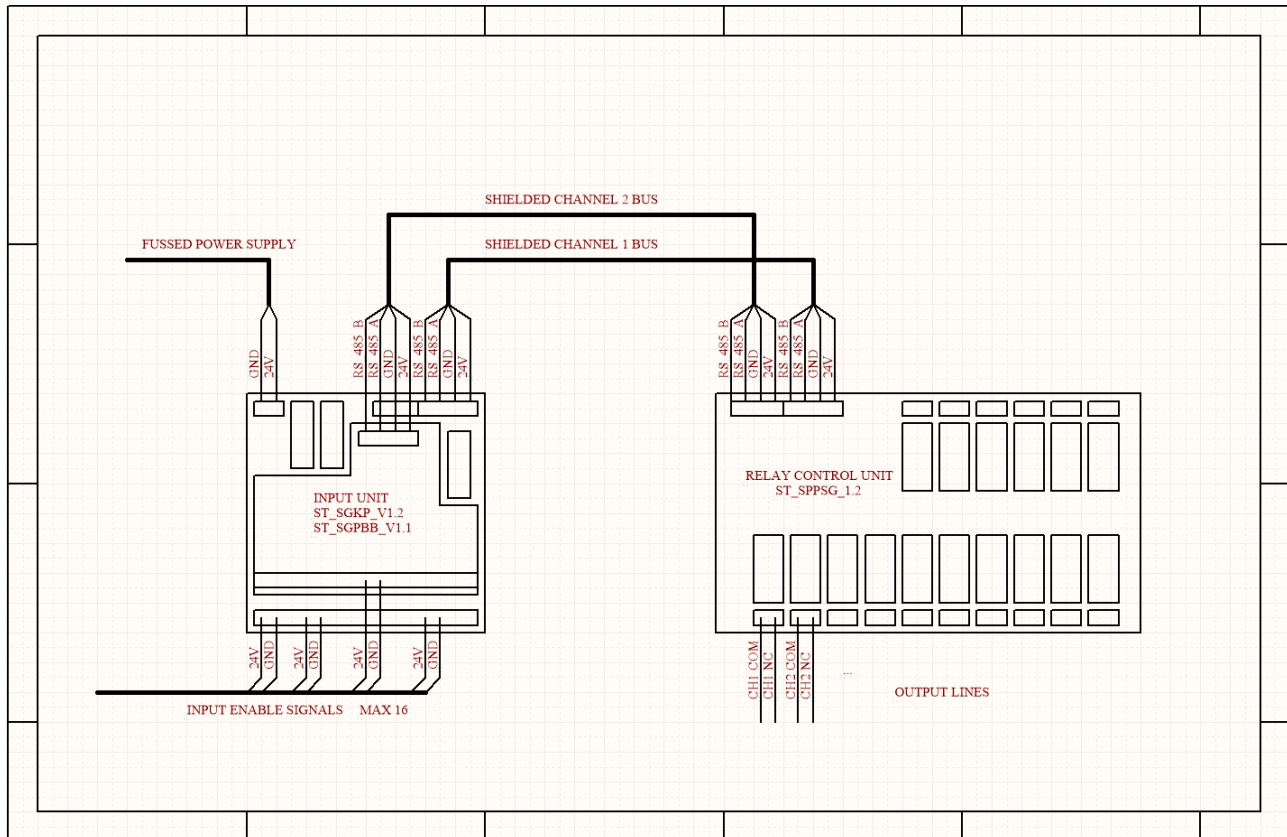


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Schematic 1. System internal and external connection.

SGPBB board specification:

Mechanical specification:

Height : 60mm
Length: 118mm
Width: 94mm
Mount: Din rail 35mm, Miniature top-hat rail 15mm

Electrical specification:

Supply voltage: 24V DC (18V-34VDC)
Idle current: 250mA
Active current: 300mA + 20mA per active channel



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PPSG board specification:

Mechanical specification:

Height : 40mm
Length: 118mm
Width: 220mm
Mount: Din rail 35mm, Miniature top-hat rail 15mm, 7x M3 screw

Electrical specification:

Supply voltage: 24V DC (20V-32VDC)
Idle current: power from SGPBB

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