

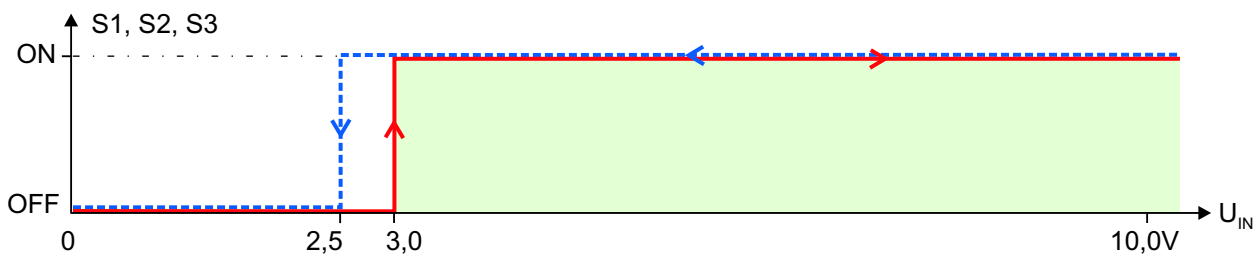
APPLICATION

The relay module used to work as an executive element with analog outputs of controllers to activate peripheral equipment requiring greater power.

DESCRIPTION

The USS111 is functional equivalent of the MCE3 module, that converts three analog signals (0 - 10V) from the controller to three voltageless, independent output states. The module has three relays: one SPST-NO and two SPDT contacts. Built-in hysteresis circuit prevents contacts from "flickering" in switching points. LED diodes indicate output states according to enclosed diagram.

Fig.1 The USS111 module.



$U_{IN(S1, S2, S3)}$ increasing [V]	$U_{IN(S1, S2, S3)}$ decreasing [V]	S1	S2	S3
0	0	○	○	○
3,0	2,5	●	●	●

■ - steady activation range

○ - opened contacts

● - closed contacts

adjust accuracy $\pm 0,5\%$

Fig.2 Switching diagram for SPST-NO contacts.

REMARK: The hysteresis width and thresholds can be individually set according to the specification.

USS111

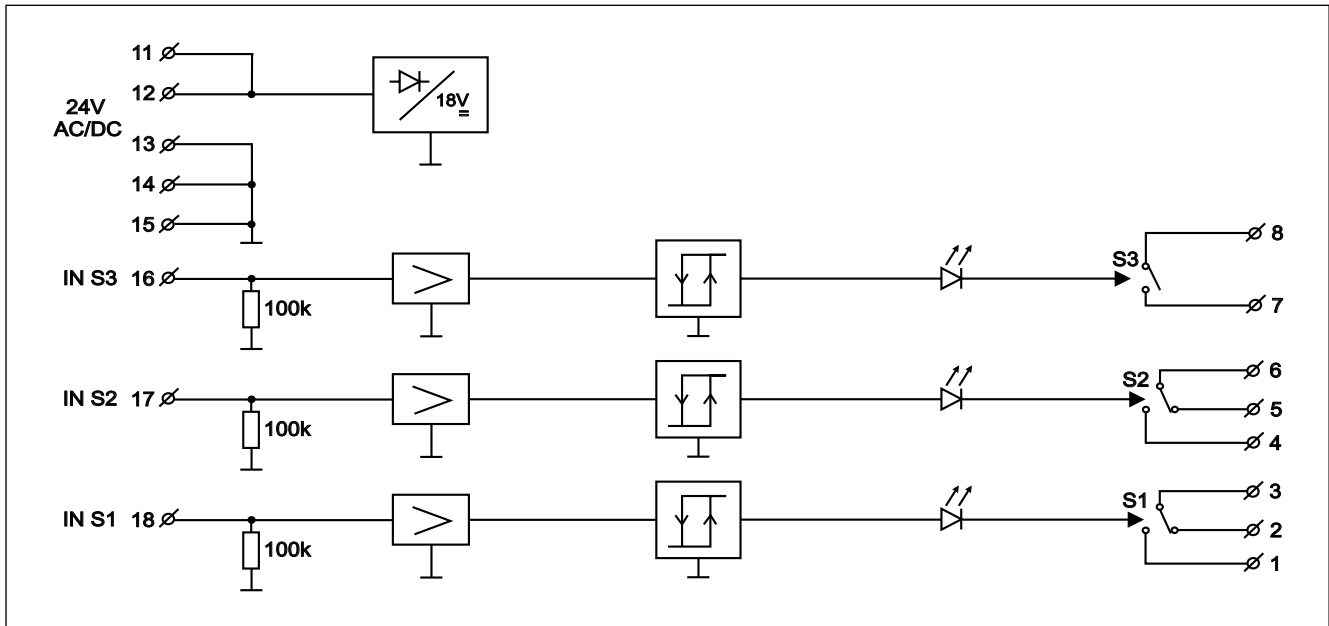


Fig.3 Connections of the USS111.

TECHNICAL DATA

Power supply	24 V AC/DC \pm 15%
Max. current consumption	74 mA for 24 V AC 40 mA for 24 V DC
Input resistance	100k Ω
Contacts switching capacity alternating current $\cos\phi=1$ direct current	380V, 8A [2000VA] 32V, 8A
Mechanical endurance of contacts	2×10^7 operations
Protection class of the case	IP-40
Protection class of terminals	IP-20
Ambient temperature range	-10...+55°C
Diameter of terminals	2,5 mm ²
Protections	against reverse polarisation
Mounting	DIN-35 or DIN-32 rail
Dimensions (L x W x H)	96mm x 48mm x 42mm
Weight	125 g

June 2004, revised: April 2008