hohner
Elektrotechnik Werne

TSM 06

Rail module TSM 06 conversion 24V PNP to RS 422/485

This interface module converts the 24V signals A, B, 0 of an incremental encoder into signals according to specification RS 422/485 (A, B, 0/AN, BN, 0N)

By using octocouplers in the inputs, a galvanic isolation of the in- and outputs is achieved.

Since the module also serves as a terminal strip for the rotary encoder and the assembly can be carried out on support rails TS 32 or TS 35, an efficient wiring is ensured.

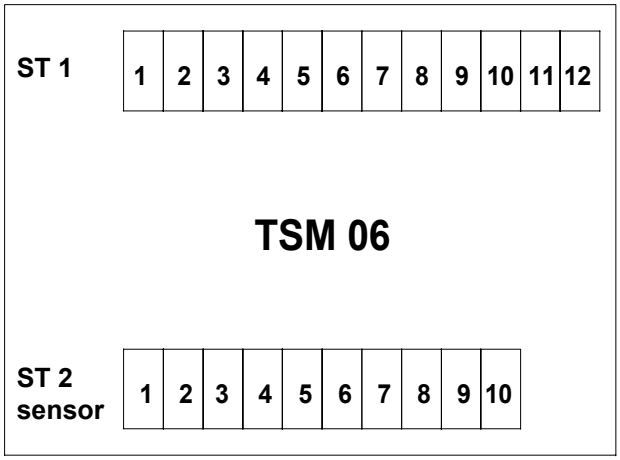
Technical data

dimensions:	L=72mm x B=84mm x H=50mm
protection type:	IP 10
combination locking foot for supporting rail systems:	TS 32 and TS 35
connection technology:	screw terminal
max. connection cross-section:	
solid-core (rigid)	2.5 mm^2
fine-wired (flexible)	1.5 mm^2
fine-wired with core end sleeve	1.5 mm^2
supply voltage:	24V DC and 5V DC ± 5%
inputs:	octocoupler
outputs:	driver according to RS 422/485 specification

Technical changes reserved

Rail module

Rail module TSM 06



Terminal assignment ST 1:

ST 1	Function
Pin	
1	input GND of 24V DC bridged with pin 1/ST 2 (encoder supply)
2	input + 24V DC bridged with pin 2/ST 2 (encoder supply)
3	input GND of 5V DC
4	input + 5V DC
5	output RS 485/channel A
6	output RS 485/channel AN
7	output RS 485/channel B
8	output RS 485/channel BN
9	output RS 485/channel 0
10	output RS 485/channel 0N
11	output shield bridged with ST 2 shield
12	output shield bridged with ST 2 shield

Terminal assignment ST 2 / sensor connection:

ST 2	Function
Pin	
1	output GND of 24V DC bridged with pin 1/ST 1 (encoder supply)
2	output + 24V DC bridged with pin 2/ST 1 (encoder supply)
3	input octocoupler PNP channel A
4	input octocoupler PNP channel B
5	input octocoupler PNP channel 0
6	nc.
7	nc.
8	nc.
9	output shield bridged with ST 1 shield
10	output shield bridged with ST 1 shield