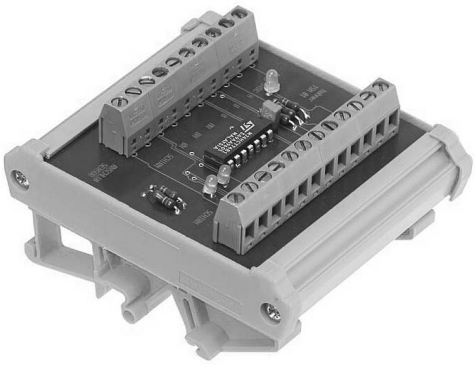
hohner
Elektrotechnik Werne

TSM 01

Rail module TSM 01 static rotation direction signal



This interface module generates two additional static rotation direction signals (V, R) from the two output signals A, B phase-shifted by 900 of an incremental encoder.

These signals can then be transmitted for further processing to a subsequent control.

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.

Incremental encoder with the following outputs can be connected to the module:
A, B/A, B ,0/A, B, 0 a. A, B, 0 inverted

All input signals are looped through and are still available on the output terminal strip supplemented by the rotation direction signals.

The individual signal states are indicated via LEDs.

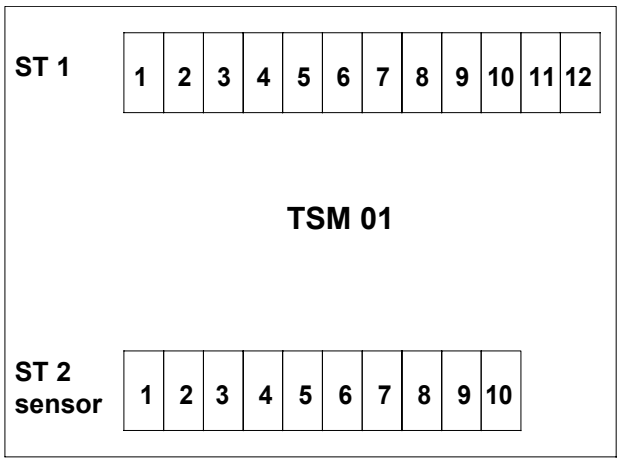
Technical data

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) fine-wired (flexible) fine-wired with core end sleeve	2.5 mm^2 1.5 mm^2 1.5 mm^2
supply voltage:	5V DC ± 5%
current consumption: (without encoder)	approx.: 10mA

Technical changes reserved

Rail module

Rail module TSM 01



Terminal assignment ST 1:

ST 1	Function
Pin	
1	input GND of 5V DC bridged with pin 1/ST 2 (encoder supply)
2	input + 5V DC bridged with pin 2/ST 2 (encoder supply)
3	output encoder signals 5V/channel A
4	output encoder signals 5V/channel AN
5	output encoder signals 5V/channel B
6	output encoder signals 5V/channel BN
7	output encoder signals 5V/channel 0
8	output encoder signals 5V/channel 0N
9	output direction of rotation V (forwards)
10	output direction of rotation R (backwards)
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 5V DC bridged with pin 1/ST 1 (encoder supply)
2	output + 5V DC bridged with pin 2/ST 1 (encoder supply)
3	input channel A
4	input channel AN
5	input channel B
6	input channel BN
7	input channel 0
8	input channel 0N
9	output shield bridged with ST 1 shield
10	output shield bridged with ST 1 shield