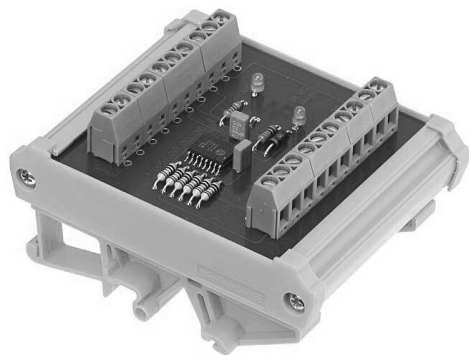


Rail module TSM 02 adapter TTL to 24V push-pull



This interface module is used to convert 5V TTL incremental encoder signals to 24V push-pull - output - signals.

After the conversion, the signals can then, for example, be transmitted for further processing to a subsequent control with 24V - counting input.

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 max. 6 outputs can be connected to the module.

Unused signals inputs must be connected with GND. For this purpose, corresponding connections are available at the input terminal strip.

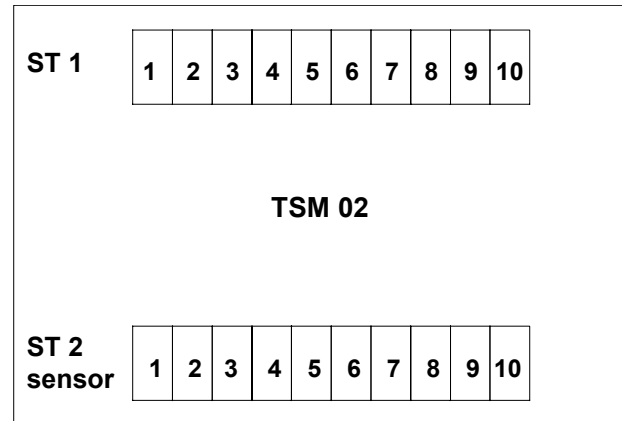
The presence of the supply voltage is indicated via LEDs.

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)	2.5 mm ²
fine-wired (flexible)	1.5 mm ²
fine-wired with core end sleeve	1.5 mm ²
supply voltage:	input 5V DC ± 5% / input 24V DC
input load (5V):	1 TTL - load Attention: unused signal inputs must be connected to GND!
frequency (max.):	input/output 150 KHz (depending on cable length)
run-through delay:	input/output approx. 0.88µs
max. output load: (24V DC/push-pull output)	100 mA / channel short-circuit-proof

Technical changes reserved

Rail module TSM 02



Terminal assignment ST 1:

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

Terminal assignment ST 2 / sensor connection:

ST 2	Function
Pin	
1	output GND of 5V / 24V 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 B
5	input channel 0
6	output GND
7	output GND
8	output GND
9	output shield bridged with ST 1 shield
10	output shield bridged with ST 1 shield