

Technical Information / Datasheet

SK TIE4-RS485-RS232

Part number: 275 274 603

Interface converter connection extension

Scope of delivery

1 x	Module	SK TIE4-RS485-RS232
1 x	Connection cables	RJ12 → RJ12 (L = approx. 10 cm)



Field of use

Signal converter from RS 485 to RS 232. This is used to connect a device with an RS 232 interface to another device with an RS 485 interface.

Use

The converter is intended for the following device combinations. The DIP switch must be set according to the combination (see also "Configuration").

For SK 180E ... SK 5xxE series devices, no converter is required for communication with a PC, as the devices are also equipped with an RS 232 interface. The converter only needs to be connected in case one or more devices are to be connected to the PC via an RS 485 interface.

		Converter				
		DIP switch position for "master"				
		RS 232	Direction of communication	RS 485		
SK 1x5E	RS 232		←	√	RS 485	SK PAR-3E / -3H
SK 1x5E			←	√		SK CSX-3E / -3H
PC (NORD CON)		√	→			SK 180E / SK 190E
PC (NORD CON)		√	→			SK 2xxE
PC (NORD CON)		√	→			SK 5xxE

Technical data

Temperature range	0 ... 40 °C
Protection class	IP20
Weight	25 g
RS485 termination	120 Ω, fixed

Interfaces	RS 232 or RS 485
Connection	2 x RJ12 plug sockets
Dimensions	LxWxH = 56x31x24 [mm]

LED indicators

The operating statuses of the module are visualised using LED indicators.

Connection extension				SK TIE4-RS232-RS485	
1.0	Erstausgabe / first issue	2713	Rck	TI 275274603	GB
version	reason for change(s)	issue	name	document	speech

Connection extension – SK TIE4-RS232-RS485






No.	Name	Colour	Meaning
1	PWR	Green	Ready for operation
2*	RS485	2x Yellow	Communication active

* Each LED indicates an intact communication direction. If an LED does not illuminate, this indicates a fault or interruption in the relevant communication direction.



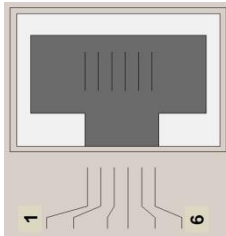
Connections

The converter is connected between e.g. the motor starter and the ParameterBox (see below).

				
Starter (Interface: RS 232)	Connection cable RJ12 – RJ12 (Enclosed with converter)	Converter SK TIE4-RS485- RS232	Connection cable RJ12 – RJ12 (enclosed with ParameterBox)	ParameterBox (Interface: RS 485)

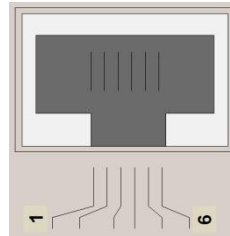
(1) Detail RJ12 – RS232

RJ12 Pin	Signal	Description
1	n.c.	
2	n.c.	
3	GND	Earth
4	TXD	Transmission Data
5	RXD	Receive Data
6	+24V-	24 V ± 20 %



(2) Detail RJ12 – RS485

RJ12 Pin	Signal	Description
1	A (+)	RS485_A
2	B (-)	RS485_B
3	GND	Earth
4	n.c.	
5	n.c.	
6	+24V-	24 V ± 20 %



Contacts 3 and 6 are connected through! The load must not exceed 500 mA!

Configuration

Configuration of the converter is restricted to a DIP switch on the front side of the converter. This determines the interface on which the master is located.

No communication is possible if the DIP switch is not set correctly.



ATTENTION

Possible damage to devices

Care must be taken that only one participant takes on the master function. Failure to observe this may cause damage to the relevant drivers.