

SK TIE4-M12-INI

Part number: 275 274 517

Connection extension for initiators and actuators

M12 control system connector

Scope of delivery

1 x	M12 cable connector	SK TIE4-M12-INI-1M
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Field of use

The M12 cable connector has open cable ends (1m) and wire end sleeves. It is used to make a pluggable connection using normal commercial M12 round plug connectors. The connection is via a standard cable entry. It connects the technology option with the outgoing control signal cable at the output side.

Technical data

Version	
Temperature range	-25 ... +80 °C
Contact insert Colour / Material	green / RAL 6018 Plastic
Round plug connector Material	Metal, CuZn, nickel plated
Connection / Type Round plug connector	M12x1, Socket connector with flexible strand
Contact set Contacts / Coding	5 pin, A - coded

Weight	35 g
Cabel / cable sheath	AWG 22 Black / PUR
Protection class (screwed)	IP67
Fastening	Separate cable entry
Tightening torques M12x1 Socket	0.6 Nm

Cable	
Number of conductors / Cross section	5 x 0.34 mm ²
Wire strands / colours	UL / (br, wt, bl, bk, gn/ye)
Length of wire strands	1000 mm
Degree of fouling	3

Mech. Service life	min. 100 plugging cycles
Operating voltage	max. 125 V AC/DC
Current rating	4 A
Rated impulse voltage	1.5 kV




Technical Information / Datasheet	SK TIE4-M12-INI-1M			
Connection extension	TI 275274517	V 1.0	1515	EN

Graphic illustration



Installation / option locations

The cable connectors are to be mounted in a free fitting of the following series of devices via a suitable cable entry (not included).

Device series	Recommended option location	Option locations
SK 135E SK 180E ... SK 190E Housing SK 1xxE xxx-xxx-x (-C)	4R / 4L (incoming) 5R / 5L (outgoing)	
SK 200E Frequency inverter connecting unit SK TI4-x-2xx-x (-C)	4R / 4L (incoming) 5R / 5L (outgoing) optional 6R / 6L, 7R / 7L, 8R / 8L	
BUS technology box BUS connection unit SK TI4-TU-BUS (-C)	1 / 2 / 3 / 4 optional 5R / 5L	

NOTICE

Corrosion

Pay attention to leaktightness during the installation of all components (assembly, connection extension etc.). It must be ensured that all components are correctly seated and the tightening torques are adhered to when doing this.

In order to ensure that protection class **IP66** is complied with (concerns all devices with type key SK ...-C), another **pressure - leaktightness test** must be performed when the assembly work has been completed.

Failure to do this will allow moisture to penetrate the device, which will result in the risk of corrosion and short circuiting.


Connections

The open cable ends of the connection extension are connected to the terminal strip of the BUS connection unit (technology box), the customer interface or the control terminal strip in the frequency inverter or motor starter (see below).



Frequency inverter and motor starter	BUS connection unit SK T14-TU-BUS (-C)	Technology box SK TU4-... (-M12) / (-C)	Customer interface SK CU4-...
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Electrical connections



Connection extension
M12 Socket connector
SK TIE4-M12-INI-1M

Connection terminals***
SK 1x5E,
SK 180E ... SK 190E,
SK 2xxE

Technology box
SK TU4-... (-M12) / (-C)
Connection unit
SK T14-TU-BUS (-C)

Customer interface
SK CU4-...

	Initiators					Actuators*				
	Pin	Colour	Signal	Contact	Designation	Contact	Designation	Contact	Designation	
	1	brown	+24 V	43/44 **	24 V	11/12	24 V	44	+24 V	
	2	white	DIN 1-4	21-24	DIN1-4	19/20/25/26	DIN 1-4	C1/C2	DIN 1-4	
	3	blue	GND	40	GND	15/17	GND	40	GND Bus	
	4	black	DIN 1-4	21-24	DIN 1-4	19/20/25/26	DIN 1-4	C1/C2	DIN 1-4	
	5	gn/ye	nc.							

	Initiators					Actuators*				
	Pin	Colour	Signal	Contact	Designation	Contact	Designation	Contact	Designation	
	1	brown	+24 V	43	+24 V	44	24 V	31/32	24 V	
	2	white	DOUT 1	1	DOUT 1	1	DOUT 1	33	DOUT 1	
	3	blue	GND	40	GND	40	GND	35/36	0 V	
	4	black	DOUT 2	3	DOUT 2	3	DOUT 2	34	DOUT 2	
	5	gn/ye	nc.							

* Only possible with series SK 2x0E devices
 ** 43: 24 V internal, SK 2x0E; 44: 24 V external, SK 2x5E
 *** For series SK1xxE devices: Replace existing pin fork terminals with 8 mm wire end sleeves, otherwise secure contact cannot be guaranteed over the long term.

Contact assignments
 5-pole
Socket connector
 A - coded

