



PASSIVE INTERFACE TECHNOLOGY INTERFACE MODULES

- Screw or spring clamp terminals
- LED displays
- DIN rail mounting

FOR ANY APPLICATION


Murrelektronik's interface modules make the connections between the controls and the field. They take over 3 major functions in the system:

- Signal transfer from the machine to the control
- Signal transfer inside the machine or control system
- Easy wiring in control systems

Murrelektronik has been an innovative partner in coming up with interface solutions for years. Their interface modules are fitted with different kinds of robust plugs like SUB-D connectors or ribbon cable connectors for strong signal or power transfers.


They are extremely compact. Individual terminal labels and status displays are integrated into the standard modules.

Interface Modules




With ribbon cable connection
UFL

Page 1.13.1



With SUB-D connector
UG SUB, SV

Page 1.13.2



With pluggable terminals
LUGS, PKB

Page 1.13.5

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

– Ribbon cable connection

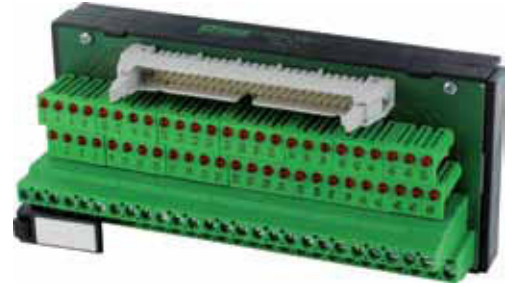
UFL

Ribbon cable connector

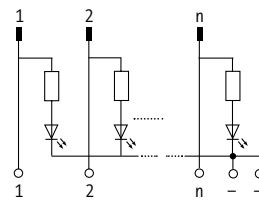
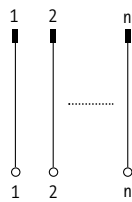


UFL

Ribbon cable connector + LED



Circuit diagram



Order Data	H×W×D	Art-No.	H×W×D	Art-No.
10-pole	63×50×48 mm	54200	63×50×48 mm	54011
16-pole	63×50×48 mm	54201		
20-pole	63×50×48 mm	54202	63×75×48 mm	54013
26-pole	63×75×48 mm	54203	63×75×48 mm	54014
34-pole	63×95×48 mm	54204	63×95×48 mm	54015
40-pole	63×120×48 mm	54205	63×120×48 mm	54016
50-pole	63×140×48 mm	54206	63×140×48 mm	54017
64-pole	63×185×48 mm	54208	63×185×48 mm	54019

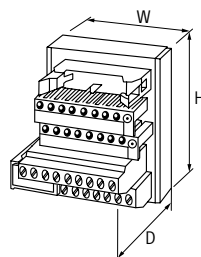
Technical Data

Operating voltage	max. 125 V AC/150 V DC	24 V AC
Operating current per bit	max. 1 A	
Air and creepage distances	(EN 60664-1) over voltage, category II	
LED display	–	LED (red) Ø 3 mm per pole, acc. to potential -
Temperature range	-20...+70 °C	
Plug connector	for plugs with or without strain relief (DIN 41651); for plugs with strain relief, it may be necessary to remove the bottom hook	

General data

Temperature range	-20...+70 °C
Mounting method	DIN-rail mountable (EN 60715)

Dimension drawing



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Notes

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

– Plug connector SUB-D

UG-SUB

Male connector
Screw terminals



UG-SUB

Male connector
Spring clamp terminals



UG-SUB

Female connector
Screw terminals

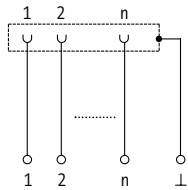


UG-SUB

Female connector
Spring clamp terminals



Circuit diagram



Order Data	H×W×D	Art-No.	H×W×D	Art-No.	H×W×D	Art-No.	H×W×D	Art-No.
9-pole	63×50×48 mm	54030	63×50×48 mm	6654030	63×50×48 mm	54040	63×50×48 mm	6654040
15-pole	63×75×48 mm	54031	63×75×48 mm	6654031	63×75×48 mm	54041	63×75×48 mm	6654041
25-pole	63×95×48 mm	54032	63×95×48 mm	6654032	63×95×48 mm	54042	63×95×48 mm	6654042
37-pole	63×75×58 mm	54033	63×75×58 mm	6654033	63×75×58 mm	54043	63×75×58 mm	6654043
50-pole	63×95×58 mm	54034			63×95×58 mm	54044		

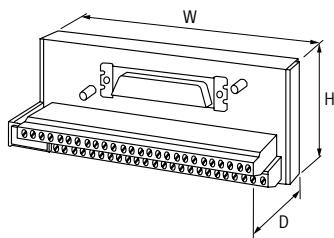
Technical Data

Operating voltage	max. 125 V AC / 150 V DC
Operating current per bit	max. 2 A
Air and creepage distances	(EN 60664-1) over voltage, category II
Plug connector	Standard UNC 4-40 screw thread bolt (EN 60807)

General data

Temperature range	-20...+70 °C
Mounting method	DIN-rail mountable (EN 60715)

Dimension drawing



Notes

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

– Plug connector SUB-D

UG-SUB

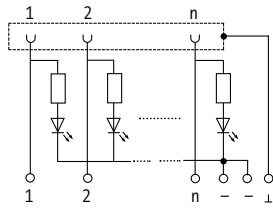
Male connector + LED
Screw terminals



UG-SUB

Female connector + LED
Screw terminals

Circuit diagram

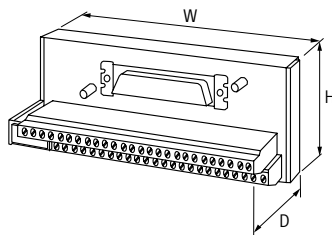


Order Data	H×W×D	Art-No.	H×W×D	Art-No.
9-pole	75×45×66 mm	54050	75×45×66 mm	54060
15-pole	75×70×66 mm	54051	75×70×66 mm	54061
25-pole	75×90×66 mm	54052	75×90×66 mm	54062
37-pole	75×135×66 mm	54053	75×135×66 mm	54063
50-pole	75×135×66 mm	54055	75×135×66 mm	54065

Technical Data	
Operating voltage	24 V DC ±15 %
Operating current per bit	max. 2 A
LED display	LED (red) Ø 3 mm per pole, acc. to potential -
Air and creepage distances	(EN 60664-1) over voltage, category II
Temperature range	-20...+70 °C
Plug connector	Standard UNC 4-40 screw thread bolt (EN 60807)

General data	
Mounting method	DIN-rail mountable (EN 60715)

Dimension drawing



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Notes

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

– Signal transfer / 3-wire connection

– Plug connector SUB-D

SV-2 x SUB-D

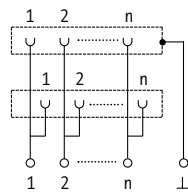
2 ports
Female connector



SV-2 x SUB-D

2 ports
Male connector

Circuit diagram



Picture: female

Order Data	HxWxD	Art-No.	HxWxD	Art-No.
15-pole	75x70x66 mm	54165		
25-pole	75x90x66 mm	54163	75x90x66 mm	54164
37-pole	86x90x78 mm	54161	86x90x78 mm	54162
50-pole			86x112.5x78 mm	54160

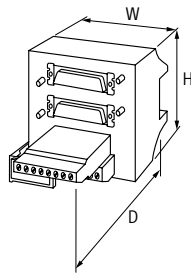
Technical Data

Operating voltage	max. 125 V AC / 150 V DC
Operating current per bit	max. 2 A
Air and creepage distances	(EN 60664-1) over voltage, category I
Temperature range	-20...+70 °C
Plug connector	Standard UNC 4-40 screw thread bolt (EN 60807)

General data

Mounting method	DIN-rail mountable (EN 60715)
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Dimension drawing



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Notes

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

– Screw plug-in terminals

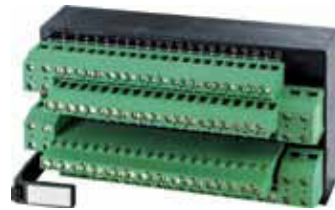
LUGS

Screw plug-in terminals

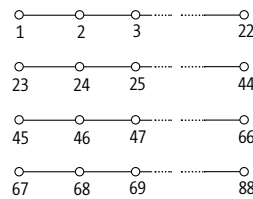
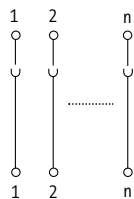


PKB

Potential terminal block



Circuit diagram



Order Data	H×W×D	Art-No.	H×W×D	Art-No.	H×W×D	Art-No.
2×8-pole	75×45×66 mm	54100				
4×8-pole	75×70×66 mm	54101				
4×12-pole	75×70×66 mm	54102				
4×16-pole	75×90×66 mm	54103				
4×22-pole			63×140×48 mm	54250	75×135×66 mm	54251

Technical Data

Operating voltage	max. 250 V AC	
Operating current per bit	max. 10 A	15 A per potential rail
Air and creepage distances	max. 10 A	(EN 60664-1) over voltage, category II
Total current	–	max. 100 A
Temperature range	-20...+60 °C	

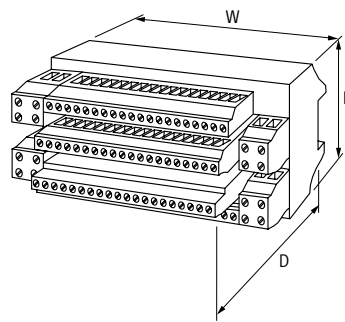
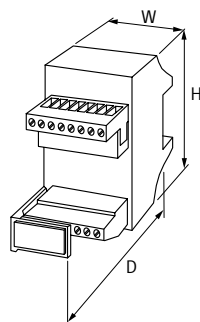
General data

Connection	Screw plug-in terminal: max. 4 mm ² , single wire	Screw plug-in terminal: max. 4 mm ² , input terminal: max. 4 mm ² (single wire)
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Mounting method

DIN-rail mountable (EN 60715)

Dimension drawing



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Notes

PASSIVE INTERFACE TECHNOLOGY

Transfer modules

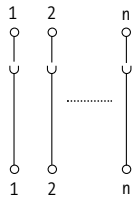
– Spring clamp terminals

LUGS

pluggable Push-In spring clamp terminals



Circuit diagram



Order Data	HxWxD	Art-No.
4x8-pole	75x45x75 mm	6654101
4x12-pole	75x70x75 mm	6654102

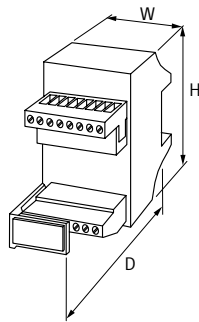
Technical Data

Operating voltage	max. 250 V AC
Operating current per bit	max. 8 A
Air and creepage distances	(EN 50178) over voltage, category I
Temperature range	-20...+60 °C

General data

Connection	Spring clamp plug-in terminals: max. 2.5 mm ² (AWG 14)
Mounting method	DIN-rail mountable (EN 60715)

Dimension drawing



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Notes

Accessories			Art-No.
	<p>ACS label plate KM 5 for self marking (9 × 20 mm)</p>		7000-99001-000000
	<p>ACS label plate KM 6/18 for self marking with ADEMARK markers</p>		7000-99003-000000
	<p>Standard UNC 4-40 screw thread bolt (EN 60807)</p>		54079
	<p>SUB-D snap-in connector 9...37-pole</p>		54077