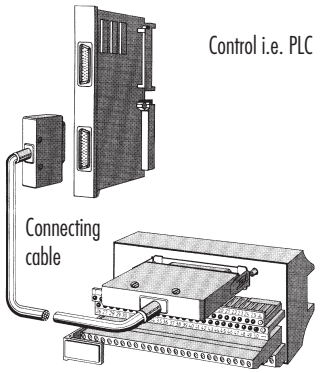
Passive interface modules



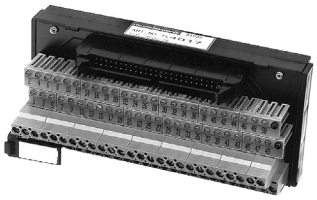
Murrelektronik "passive interface modules" are "plug connectors" – interfaces between the electronics and the field.

They take over 3 major functions in the control system:

- signal transfer between machine and controller
- signal transfer in the machine or the control system
- a rationalized system wiring

Murrelektronik "passive interface modules" are fitted with various robust plug connectors. For example SUB-D connectors to EN 60807 or ribbon cable connectors to DIN 41651 for signal or power transfer. They all have an extremely compact build format.
As standard each terminal rail can be individually labelled and LED indicators are integrated. Murrelektronik has been a competent partner in solving all kinds of interface problems for years.

Transfer module for ribbon cable connection



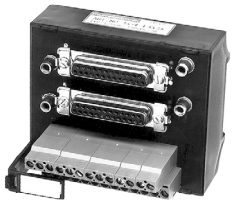
UFL
Small dimensions and optimal functionality are the advantages of this connector system for ribbon cable to DIN 41651.
UFL modules come with or without LED.
They snap onto 35mm DIN-rail to EN 60715.
No. of poles: 10…64 contacts

page 3.7.2

Transfer module with SUB-D plug connector

UG SUB
Robust connector system to EN 60807 for currents up to 2 A. Shielding is brought directly out of the housing.
Minimal space necessary. The connector fixing mechanisms are standard types. Fixing mechanisms can be altered without any great problem. UG-SUB modules are suitable for various applications and come with or without LED.
They snap onto 35mm DIN-rail to EN 60715.
No. of poles: 9…50 contacts, female or male connectors

page 3.7.3



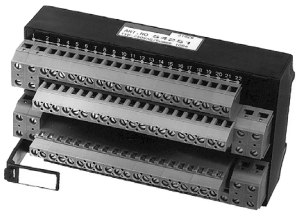
SV
The Murrelektronik connector system SV are designed for special applications.
Example: – Plugging 2 SUB-D connectors to EN 60807 and signals transferred via screw terminals.
– Distributor system for 3-wire initiators with SUB-D or ribbon cable connectors to DIN 41651 and supplied with LEDs.
They snap onto 35mm DIN-rail to EN 60715.
No. of poles: 10…50 contacts

page 3.7.4

Transfer module with screw terminals

LUGS
Screw plug system with a fixed and a removable screw terminal block. The LUGS connector system is for currents up to 10 A and snaps onto DIN-rail to EN 60715.
With this system it is possible to join simple connectors such as diagnostics, test or other mobile equipment.
No. of poles: 8…32 contacts

page 3.7.5

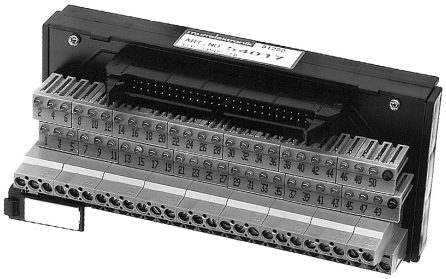
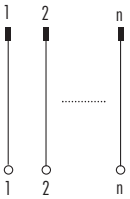
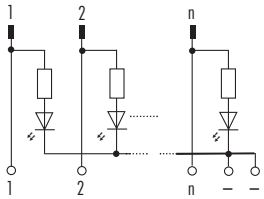


PKB
Potential terminal block with 4 terminal rails each with 22 terminals. This module can take up to 88 wires with a total combined current of 25 A.
They snap onto DIN-rail to EN 60715.
No. of poles: 4 x 22 contacts

page 3.7.5

Passive interface modules

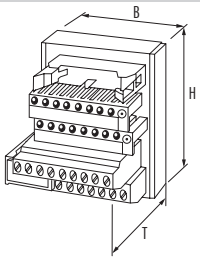
Ribbon cable to DIN 41651

	UFL	**UFL**
	plug connectors for signal transfers (male)	plug connectors for signal transfers LED indication of signal (male)
		
Circuit diagram		
		
Ordering data	**Art.-No.**	**Art.-No.**
No. of poles		
10	**54200**	**54011**
16	**54201**	
20	**54202**	**54013**
26	**54203**	**54014**
34	**54204**	**54015**
40	**54205**	**54016**
50	**54206**	**54017**
64	**54208**	**54019**
Technical data		
Voltage range	max. 125 V AC, 150 V DC	24 V DC
Supply current	1 A	1 A
Status indicator	no	red LED Ø 3 mm each pole, common potential –
Air and creepage distance (EN 60664-1)	cat. II	
Temperature range	-20…+70 °C	
Plug connector to DIN 41651	plug connector for plugs with or without strain relief	
	(plugs with strain relief, it may be necessary to remove the bottom hook)	
Mounting method	DIN-rail mounting EN 60715	

Dimensions H x B x T

No. of poles	H	B	T	No. of poles	H	B	T
10	63	50	48	10	63	50	48
16	63	50	48	16	63	50	48
20	63	75	48	20	63	75	48
26	63	75	48	26	63	75	48
34	63	95	48	34	63	95	48
40	63	120	48	40	63	120	48
50	63	140	48	50	63	140	48
64	63	185	48	64	63	185	48

Dimension drawing



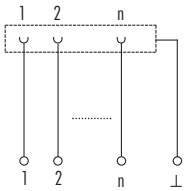
Notes

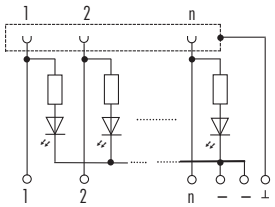
Via the combined fixing mechanism, connectors with or without strain relief can be connected.
Accessories can be found in chapter 3.13

SUB-D
Transfer plug connector to EN 60807

UG SUB male	**UG SUB** female	**UG SUB** male + LED	**UG SUB** female + LED

Circuit diagram





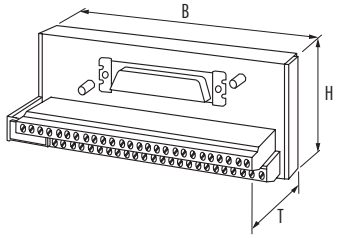
Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**	**Art.-No.**
No. of poles				
9	[1] **54030**	[1] **54040**	[1] **54050**	[1] **54060**
15	**54031**	**54041**	**54051**	**54061**
25	**54032**	**54042**	**54052**	**54062**
37	[1] **54033**	[1] **54043**	**54053**	**54063**
50	[1] **54034**	[1] **54044**	**54055**	**54065**

Technical data		
Voltage range	max. 125 V AC, 150 V DC	24 V DC
Supply current	max. 2 A	max. 2 A
Status indicator	no	red LED Ø 3 mm each pole, common potential –
Air and creepage distance (EN 60664-1)	cat. II	cat. III
Temperature range	-20…+70 °C	
Plug connector to EN 60807	standard UNC 4-40 screw thread bolts or Siemens diagonal screw fixing	
	accessories: Harting- snap-in connector Art.-No. 54077 (up to 37-pol. SUB-D), Art.-No. 54078 (for 50-pol. SUB-D)	
Mounting method	DIN-rail mounting EN 60715	

Dimensions H x B x T

No. of poles	H	B	T	No. of poles	H	B	T
9	63	50	48	9	75	45	66
15	63	75	48	15	75	70	66
25	63	95	48	25	75	90	66
37	63	75	58	37	75	135	66
50	63	95	58	50	75	135	66

Dimension drawing



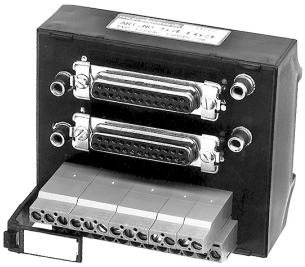
Notes

[1] without Siemens diagonal fixing mechanism.
Accessories can be found in chapter 3.13

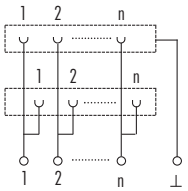
Plug connectors for signal transfers or 3-wire connection

SV distribution system

with 2 plug sockets
SUB-D connectors to EN 60807



Circuit diagram



Picture: female

Ordering data

No. of poles	Form		Art.-No.
15	EN 60807	female	**54165**
25	EN 60807	female	**54163**
25	EN 60807	male	**54164**
37	EN 60807	female	[1] **54161**
37	EN 60807	male	[1] **54162**
50	EN 60807	male	**54160**

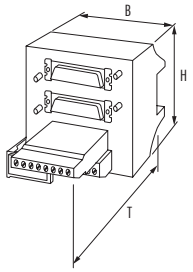
Technical data

Voltage range	max. 125 V AC, 150 V DC
Supply current	max. 2 A
Status indicator	no
Air and creepage distance (EN 60664-1)	cat. I
Temperature range	-20…+70 °C
Plug connector to EN 60807	standard UNC 4-40 screw thread bolts or Siemens diagonal screw fixing
	accessories: harting snap-in connector Art.-No. 54077 (up to 37-pol. SUB-D), Art.-No. 54078 (for 50-pol. SUB-D)
Mounting method	DIN-rail mounting EN 60715

Dimensions H x B x T

No. of poles	H	B	T
15	75	70	66
25	75	90	66
37	86	90	78
50	86	112.5	78

Dimension drawing



Notes

[1] Without diagonal screw fixing.
Accessories can be found in chapter 3.13

VG-plugs

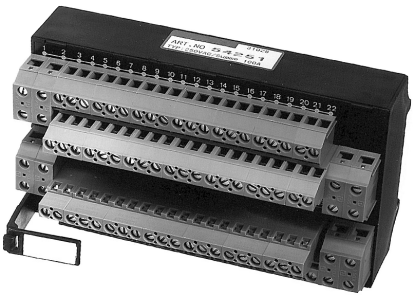
Plug connectors for signal transfers

Potential terminal block

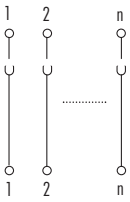
LUGS

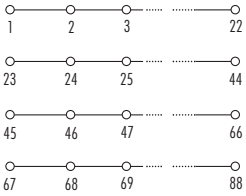
PKB

potential terminal block



Circuit diagram





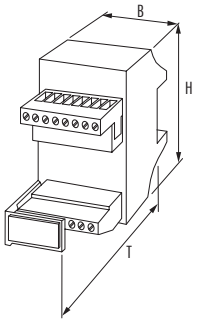
Ordering data	Art.-No.	Art.-No.
No. of poles		
8	[1] **54100**	
16	**54101**	
24	**54102**	
32	**54103**	
4 x 22		**54250**
4 x 22		[2] **54251**

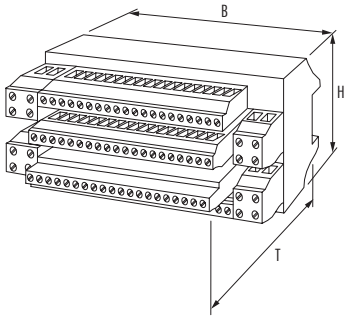
Technical data		
Voltage range	250 V AC	
Supply current	max. 10 A	Art.-No. 54250 each potential rail 15 A; Art.-No. 54251 each to…25 A
Status indicator	no	
Air and creepage distance (EN 60664-1)	cat. I	cat. II
Temperature range	-20…+60 °C	
Wiring method	screw terminals 4 mm² single core	
Mounting method	DIN-rail mounting EN 60715	

Dimensions H x B x T

No. of poles	H	B	T	Art.-No.	H	B	T
8	75	45	66	54250	63	140	48
16	75	45	66	54251	75	135	66
24	75	70	66				
32	75	90	66				

Dimension drawing





Notes

[1] Art.-No. 54100 connection via single row terminals. Accessories can be found in chapter 3.13

[2] Input terminals max. 6 mm² single core, combined current max. 100 A.