



MKS-D

Diode modules, which snap onto DIN-rail to EN 50022 and 50035 with single diode outputs onto terminals or resp. commonly joined on one side.

Page 3.14.2



MKS-LDP

Diode modules, which snap onto DIN-rail to EN 50022 and 50035.
Pairs of joined diodes with common control for lamp test applications.

Page 3.14.3



MKS-BCD

Diode modules, which snap onto DIN-rail to EN 50022 and 50035.
Diode logic to convert from hexadecimal in binary code.

Page 3.14.3



MKS-M

Assembly modules can put together as desired via 2 x 4 or 2 x 8 soldering tags which lead to the terminals.
Snap onto DIN-rail to EN 50022 and 50035.
Assembly modules can put together as desired via 2 x 16 soldering tags which lead to the terminals.
Snaps onto DIN-rail to EN 50022 and 50035.

Page 3.14.4



MP

Assembly modules can be put together as desired via 2 x 6, 2 x 12 or 2 x 16 soldering tags which lead to the terminals.
Snaps onto DIN-rail to EN 50022 .

Page 3.14.4



ML 14

MCVO housing 14-poles. In the housing there is a bread board for use as desired.
Connection is via screw terminals. Snaps onto DIN-rail to EN 50022 and 50035.

Page 3.14.4

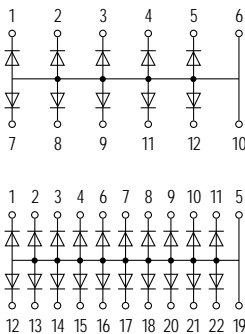
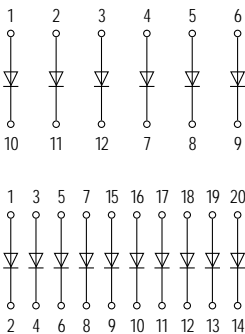
DIN-rail mounting
diode modules

MKS-D
Individually wired to screw terminals

MKS-D
Diodes with common potential



Circuit diagram



Picture:
com. potential anode

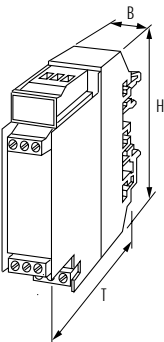
Ordering data		Art.-No.	Art.-No.
Circuit	No. of diodes		
Single	6	67063	
Single	10	67066	
Com. potential anode	10		67040
Com. potential anode	20		¹⁾ 67052
Com. potential cathode	10		67045
Com. potential cathode	20		67057

Technical data	
Diode type	universal diode 1300 V, 1 A
Wiring method	screw terminals 4 mm ²
Temperature range	-20...+60 °C
Mounting method	DIN-rail mounting to EN 50022 and 50035

Description
diode modules are also available for the suppression of inductive loads (valves, contactors, motors etc.)

Dimensions H x B x T			
86 x 22,5 x 62 mm	67063	86 x 22,5 x 62 mm	67040
86 x 45 x 62 mm	67066	86 x 45 x 62 mm	67052
		86 x 22,5 x 62 mm	67045
		86 x 45 x 62 mm	67057

Dimension drawing



Notes
¹⁾ An alternative version with different terminal arrangement as specified by VW is Art.-No. 602925 (VW No. A236478)

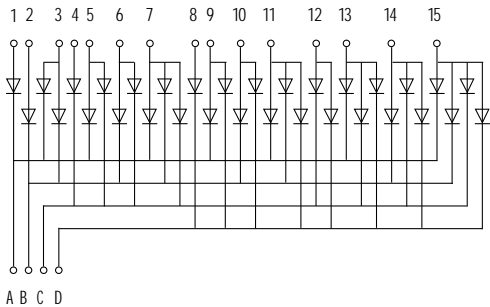
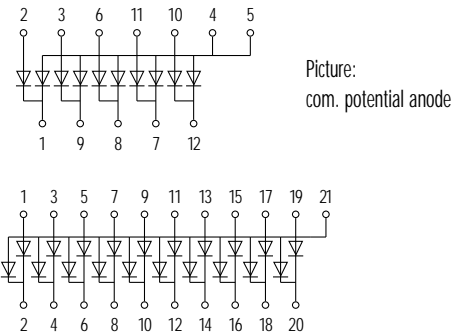
DIN-rail mounting diode modules

MKS-LDP
Diodes wired in pairs with common potential

MKS-BCD
Diode logic for converting hexadecimal into binary numbers



Circuit diagram



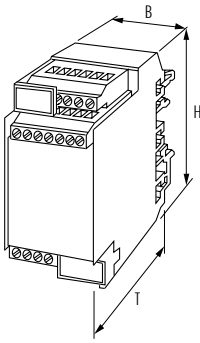
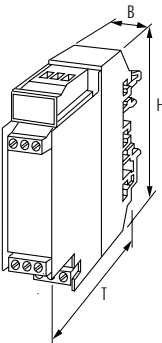
Ordering data		Art.-No.	Art.-No.
Circuit	No. of diodes		
Com. potential anode	5 pairs	67072	
Com. potential anode	10 pairs	67096	
Com. potential cathode	5 pairs	67077	
Com. potential cathode	10 pairs	67098	
			67079

Technical data	
Diode type	universal diode 1300 V, 1 A
Wiring method	screw terminals 4 mm ²
Temperature range	-20...+60 °C
Mounting method	DIN-rail mounting to EN 50022 and 50035

Description	diode gathered for lamp test function	diodes gathered to convert hexadecimal to binary numbers
-------------	---------------------------------------	----------------------------------------------------------

Dimensions H x B x T	86 x 22,5 x 62 mm 86 x 45 x 62 mm 86 x 22,5 x 62 mm 86 x 45 x 62 mm	67072 67096 67077 67098	86 x 67,5 x 62 mm 67079
----------------------	------------------------------------------------------------------------------	----------------------------------	----------------------------

Dimension drawing



Notes	Lamp test module 12-way in housing 63 x 90 x 30 mm with soldering tags for 12 resistors Art.-No. 60184
-------	---------------------------------------------------------------------------------------------------------------

Assembly modules for the self-wiring of components

CE

MKS-M

Screw terminals
connected to solder tag pairs



ML 14

MCVO-Housing 14-pole
with bread board

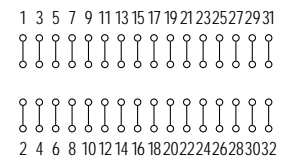
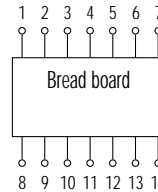
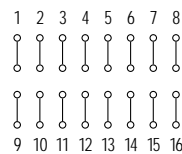


MP

Screw terminals
connected to solder tag pairs



Circuit diagram



Ordering data

Art.-No.

Art.-No.

Art.-No.

Pairs of solder tags

4

67081

6

62001

6

¹⁾62030

8

67083

12

62010

14

92200

16

62020

Technical data

Voltage max. 250 V AC/DC

Current max. 5 A Art.-No. 67081: 2,5 A

Dist. between tag pairs 40 mm Art.-No. 67081: 30 mm

—

24 mm

Wiring method screw terminals 4 mm²; connected to solder tag pairs spacing 5 mm

Material flame retardant plastic

Housing enclosed

base open

Temperature range -20...+60 °C

Mounting method DIN-rail mounting
to EN 50022 and 50035

DIN-rail mounting
to EN 50022 or screw fixing

Dimensions H x B x T

86 x 22,5 x 62 mm

67081

75 x 22,5 x 102 mm

92200

63 x 45 x 36 mm

62001

86 x 45 x 62 mm

67083

90 x 63 x 36 mm

62030

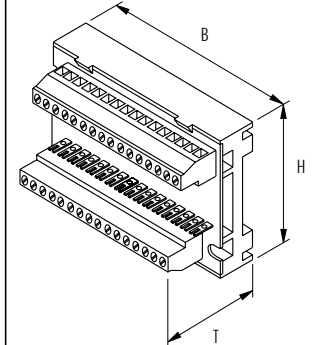
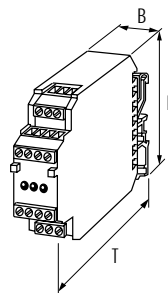
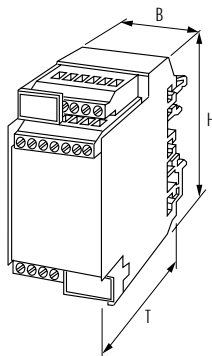
63 x 70 x 36 mm

62010

63 x 90 x 36 mm

62020

Dimension drawing



Notes

¹⁾Art.-No. 62030 has a spacing between solder tags of 50 mm.

MSDD in Metal design

The new generation front panel interface sets new scale in point stability and modularity.

With the help of the MSDD front panel interface, programmers, diagnostic devices, data loggers, printers or monitors can be easily connected to the PLC; without opening the cabinet door. This is another plug-in solution for your control cabinet.

Along with the standard plastic MSDD Murrelektronik now offers this improved version with higher mechanical, chemical and temperature resistance. The hinged lid and optional locking mechanism, protects against dirt and unauthorized use.

By using modular assembly in either single or double versions, various combinations of integrated connectors can be provided with this new front panel interface.

From the protection grounding connection outlet to the VGA-connector, almost all is in standard delivery program. Additionally, accessories such as a locking ring, on the closed hinged lid, round the system.



Single version



Double version



Assorted combination possibilities with modular design



Simple mounting

Energy... ...integrated main sockets

- Germany (VDE)
- France (UTE)
- Great Britain (BS)
- USA (NEMA 5-15)
- Switzerland (Type 12)

Information... ...integrated data connectors

- SUB-D female and male connectors (9, 15, 25, 37 and 50-pole)
- PC-Interface (VGA-monitor connection)
- Network Connectors (RJ 45)

Advantages:

- Single and double version
- Separated and lockable hinged lids
- Modular and professional design
- High mechanical resistance
- Simple mounting
- Integrated outlets for European and American markets
- Operating voltage indicator
- Wide range of data connector- (SUB-MIN-D, RJ 45, PS2 etc.)
- IP65 Protection
- High temperature resistance



The connection to the outside world!

With front panel interface MSDD, you have a simple, unproblematic and optimal connector interface in your switch gear, connection box or command desk.

With the system startup and service work it is frequently necessary that the programmer equipment communicates with the controller, and at the same time the control device of the command terminals serve as the display element to observe. With the front panel interface you have the possibility to directly produce the connection of the operator terminal with the control. Through a time involved diagnosis design you are ensured an effective switching on.

You must not always immediately send your products to an expensive technician since we have the PLC-absentee diagnosis today, which is very significant. You will realize this with an electronic interface and a modem. In most there is a built in casing that can be placed next to the switch gear, in there you find the control.

Problems lie often in the connection between PLC and diagnosis accessory, there the switch gear door must be opened. With the MSDD produced by Murrelektronik using interface is so simple, it's child's play.



MSDD in metal model

IP65 Protection.

Plug socket and Sub-Min-D connector(s) for mounting panel wall or operator panels.

This allows a quick and problem free connection of service equipment (PC, Programming unit, Printer etc.)

From page 3.14.7



MSDD in plastic model

IP54 Protection.

Front panel interface with socket outlet with grounding contact and SUB-MIN-D connector in field-tested model.

From page 3.14.9



MSVD

The plug sockets snaps onto DIN-rail to EN 50022

Suitable for mounting in control panels where a German or French plug socket is needed. Grey and yellow versions are available.

Page 3.14.11

Front panel interface
Metal model
IP65 Protection

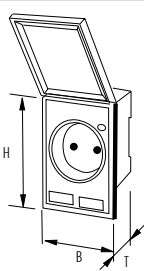
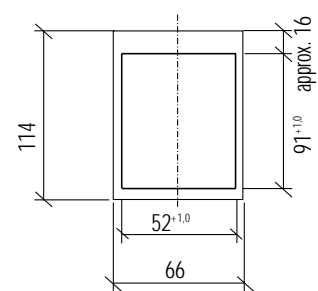
Single version

MSDD



Ordering data			Art.-No.
Version			
German Norm	(VDE with LED)		67600
American Norm	(NEMA 5-15)		67601
French Norm	(UTE with LED)		67602
1 x 9-p.	+ 1 x 9-p. female	SUB-MIN-D	67610
1 x 15-p.	+ 1 x 15-p. female	SUB-MIN-D	67611
1 x 25-p.	+ 1 x 25-p. female	SUB-MIN-D	67612
1 x 37-p.	female	SUB-MIN-D	67613
1 x 50-p.	female	SUB-MIN-D	67614

General data	
Wall thickness	1...5 mm
Dimensions H x B x T	114 x 66 x 32...62 mm (element dependent)
Material/housing color/protection	zinc pressure diecasting/grey, other colors on request/IP65 when lid is closed
Temperature range	-25...+60 °C
Technical data	Recepticle
Nominal voltage	VDE, UTE: max. 250 V AC USA: max. 125 V AC
Nominal current	VDE, UTE: max. 16 A USA: max. 15 A
Wiring method/ max. diameter	VDE, UTE: screw terminals/max. 6 mm² USA: flat connector/4,8 mm x 0,6 mm/AWG 14-12
Technical data	Data plug connector SUB-MIN-D
Nominal voltage	max. 125 V AC/150 V DC
Nominal current	max. 3 A
Max. diameter	AWG 20/0,5 mm²
Mounting method	soldering
Locking	UNC 4...40 bolts

Dimension drawing	
	<p>Wall cut-out (——) for mounting is not centered to the outer edge (.....) of the front panel suitable to wall thickness 1...5 mm</p>
	

Accessories		
Locking ring		90965
Pad lock		90966
Locking bolts		54076
Dust protection cap, when SUB-MIN-D is not used	9-pole	92100
	15-pole	92101
	25-pole	92102

Notes	
Other versions on request.	

Front panel interface Metal model IP65 Protection

Double version



MSDD

German Norm (VDE with LED)



MSDD

French Norm (UTE with LED)

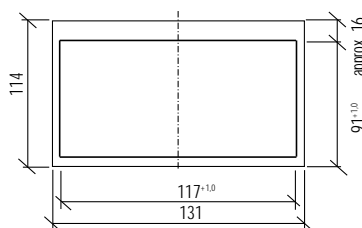
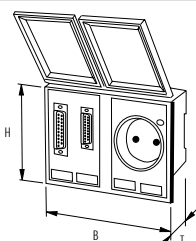


MSDD

American Norm (NEMA 5-15)



SUB-MIN-D soldering connect.	Art.-No.	Art.-No.	Art.-No.
Combination with plug socket			
1 x 9-p. female + 1 x 9-p. female	67700		67802
1 x 9-p. female + 1 x 9-p. male	67720		
1 x 9-p. female + 1 x 15-p. female	67706		
1 x 9-p. female + 1 x 25-p. female	67707	67850	67800
1 x 9-p. female + 1 x 37-p. female	67708		
1 x 9-p. male + 1 x 25-p. female	67722		
1 x 15-p. female + 1 x 15-p. female	67701	67855	
1 x 15-p. female + 1 x 25-p. female	67711		
1 x 15-p. female + 1 x 37-p. female	67712		
1 x 25-p. female + 1 x 25-p. female	67702		
1 x 25-p. female + 1 x 37-p. female	67715		
1 x 50-p. female	67719		
1 x 9-p. female + 9-p. blind cap.	67705		
1 x 15-p. female + 9-p. blind cap.	67710		
1 x 25-p. female + 9-p. blind cap.	67714		
1 x 37-p. female + 9-p. blind cap.	67717		
Data plug connector	Art.-No.	Art.-No.	Art.-No.
Combination with receptacle			
1 x 15-p. female (HD) + PS2 (6-p. female)	67740		
RJ 45 (8-p. female) pluggable from both sides	67745		
Receptacle	Art.-No.	Art.-No.	Art.-No.
2 x mains plug	67726		
General data			
Wall thickness	1...5 mm		
Dimensions H x B x T	114 x 131 x 32...62 mm (element dependent)		
Material/housing color/protection	zinc pressure diecasting/grey, other colors on request/IP65 when lid is closed		
Technical data	Receptacle		
Nominal voltage	max. 250 V AC		max. 125 V AC
Nominal current	max. 16 A		max. 15 A
Wiring method/ max. diameter	screw terminals/6 mm ²		flat connector 4,8 x 0,6 mm/AWG 14-12
Technical data	Data plug connector SUB-MIN-D		
Max. nominal voltage	SUB-MIN-D: 125 V AC/150 V DC	PS2: 100 V AC/DC	RJ45: 125 V AC/150 V DC
Max. nominal current	SUB-MIN-D: 3 A	PS2: 1 A	RJ45: 1 A
Max. diameter	SUB-MIN-D: AWG 20/0,5 mm ² (HD: AWG22/0,34 mm ²)	PS2: AWG24/0,22 mm ²	RJ45: –
Mounting method	SUB-MIN-D: soldering	PS2: soldering	RJ45: both sides pluggable
Locking	SUB-MIN-D: UNC 4...40 bolts	PS2: snap in	RJ45: staple for the bolt
Dimension drawing			



Wall cut-out (——) for mounting is not centered to the outer edge (.....) of the front panel suitable to wall thickness 1...5 mm

Notes

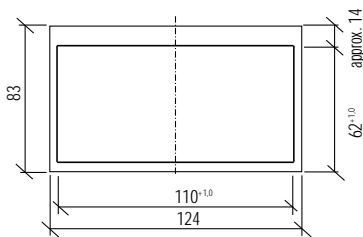
Other versions on request. Accessories see on page 3.14.7

Front panel interface
Plastic model
IP54 Protection

MSDD



Mounting notes



Wall cut-out (——) for mounting is not centered to the outer edge (.....) of the front panel suitable to wall thickness 1...2 mm

Ordering data	Art.-No.	Art.-No.	Art.-No.
Combination with plug socket	German Norm (VDE with LED)	French Norm (UTE with LED)	American Norm (NEMA 5-15)
2 x 9-pol. female SUB-MIN-D	67972		
1 x 9-pol. + 1 x 15-pol. female SUB-MIN-D	67973		
1 x 9-pol. + 1 x 25-pol. female SUB-MIN-D	67974	¹⁾ 676057	676070
1 x 15-pol. female SUB-MIN-D	67975		
1 x 15-pol. + 1 x 25-pol. female SUB-MIN-D	67976	¹⁾ 676068	676071
2 x 15-pol. female SUB-MIN-D	67960	¹⁾ 67965	676072
2 x 25-pol. female SUB-MIN-D	67977	¹⁾ 676061	676073
2 x 25-pol. male SUB-MIN-D	67978		
2 x mains plug	67970	676069	676074

General data	
Wall thickness	1...2 mm
Dimensions H x B x T	92 x 124 x 65 mm
Material/housing color/protection	polyamide PA6,6/grey (RAL 7035), black on request/IP54 when lid is closed
Mains plug socket	
Nominal voltage/nominal current	max. 250 V AC/max. 16 A
Wiring method/max. diameter	screw terminals/6 mm
Sub-Min-D connector	
Nominal voltage/nominal current	max. 125 V AC/150 V DC
Nominal current	max. 3 A
Max. diameter	AWG 20/0,5 mm²
Mounting method	soldering
Locking	bolt locking (UNC-screw locking on request)

Dimension drawing

Notes
UNC 4-40 bolt (1 pair) available as accessory Art.-No. 54079. Pre-wired cables with Sub-Min-D connectors can be connected into the MSDD. Art.-No. 676110. for the american market.

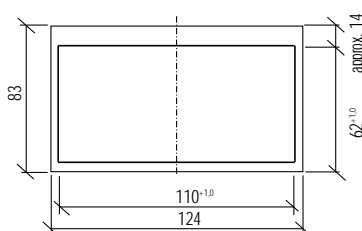
¹⁾ UNC screw fixing

Front panel interface
Plastic model
IP54 Protection

MSDD



Mounting notes



Wall cut-out (——) for mounting is not centered to the outer edge (.....) of the front panel suitable to wall thickness 1...2 mm

Ordering data

Art.-No.

Art.-No.

Combination with plug socket

German Norm (VDE with LED)

German Norm (VDE with LED)

1 x 9-p. male + 1 x 9-p. female SUB-MIN-D

¹⁾ **676087**

1 x 25-p. male + 1 x 25-p. female SUB-MIN-D

676031

1 x 25-p. female SUB-MIN-D

676039

676046

1 x 25-p. female SUB-MIN-D

¹⁾ **676036**

2 x 25-p. female SUB-MIN-D

²⁾ **676041**

General data

Wall thickness

1...2 mm

Dimensions H x B x T

92 x 124 x 65 mm

Material/housing color/protection

polyamide PA6,6/**grey** (RAL 7035)/IP54 when lid is closed

polyamide PA6,6/**black**/IP54 when lid is closed

Mains plug socket

Nominal voltage

max. 250 V AC

Nominal current

max. 16 A

Sub-Min-D connector

Nominal voltage

max. 125 V AC/150 V DC

Nominal current

max. 3 A

Max. diameter

AWG 20 / 0,5 mm²

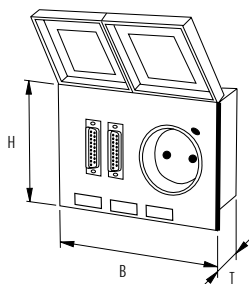
Mounting method

soldering

Locking

bolt locking (UNC-screw locking on request)

Dimension drawing



Notes

UNC 4-40 bolt (1 pair) available as accessory **Art.-No. 54079**

Pre-wired cables with Sub-Min-D connectors can be connected into the MSDD.

¹⁾ UNC screw fixing

²⁾ no plug socket

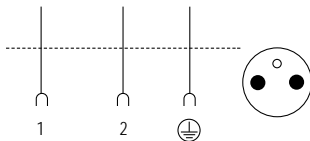
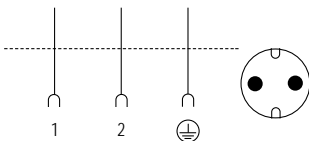
DIN-rail mountable
Plug sockets for control panels

MSVD
German Norm

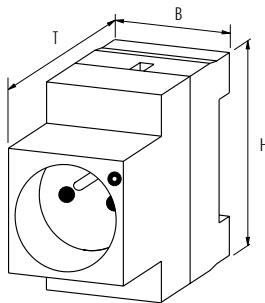
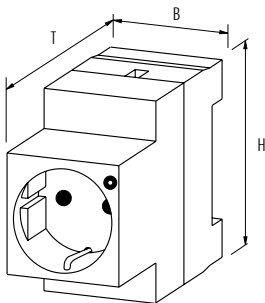
MSVD
French Norm



Circuit diagram



Ordering data	Art.-No.	Art.-No.	Art.-No.
250 V AC without LED	67900	67950	67910
250 V AC with LED	67901		67911
Technical data			
Input voltage	max. 250 V AC		
Supply current	max. 16 A		
Status indicator	LED yellow opaque Ø 3 mm		
No.of poles	2 + earth contact		
Housing color	grey (RAL 7035)	yellow (RAL 1016)	grey (RAL 7035)
Mounting method	DIN-rail mounting to EN 50022		
Dimensions H x B x T	77 x 45 x 70 mm		
Dimension drawing			



Notes

Plug sockets for panel wall or door mounting on request.