

## 270° and 10-turn Potentiometer with relay contact

### MPOT-REL

Potentiometer for set-point adjustment  
set-point via relay or can be switched off  
270° potentiometer

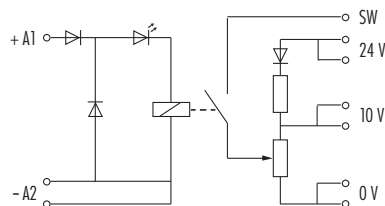


### MPOT-REL

Potentiometer for set-point adjustment  
set-point via relay or can be switched off  
3600° potentiometer /10-turn



### Circuit diagram



### Ordering data

	270°	Art.-No.	10-turn	Art.-No.
Potentiometer value				
1 k-Ohm		<b>67551</b>		<b>67561</b>
5 k-Ohm		<b>67555</b>		<b>67565</b>
10 k-Ohm		<b>67552</b>		<b>67562</b>
100 k-Ohm		<b>67553</b>		<b>67563</b>

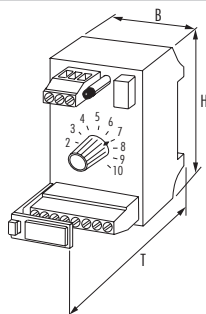
### Technical data

Pot. resistance tolerance	± 20 %		± 5 %
Linearity	± 3 %		± 0.25 %
Power: potentiometer	1 W		1.4 W (2 W at 40 °C)
Power: resistor	0.25 W		
Control voltage/current	24 V DC/20 mA		
Contact material/relay	Pd Ni-Au Rh		
Switched current min./max.	1 mA/1 A		
Status indicator	green LED in control circuit		
Temperature range	0...+60 °C		
Mounting method	DIN-rail mounting EN 60715		
Dimensions H x B x T	75 x 45 x 65 mm		

### Description

Murrelektronik potentiometer modules can be fitted with individual potentiometers and are available in 2 standard versions. The first version is a simple 270° potentiometer, the second a 10-turn potentiometer with fine adjustment. The module operates with 10 V or 24 V DC. A resistor reduces the voltage so that a 24 V DC voltage can be reduced to operate between 0...11 V. The connection is via terminals. A set-point can also be switched-on using an integrated relay and separate output. Many elements can be combined. The modules are for mounting on DIN-rail to EN 60715.

### Dimension drawing



### Notes

The 10-turn potentiometer has a decimal scale and locking lever.

## 270° and 10-turn Potentiometer

### MPOT

Potentiometer for set-point adjustment  
270° potentiometer

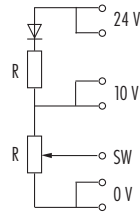


### MPOT

Potentiometer for set-point adjustment  
3600° potentiometer/10-turn



### Circuit diagram



Ordering data	270°	Art.-No.	10-turn	Art.-No.
Potentiometer value				
1 k-Ω		<b>67501</b>		<b>67511</b>
5 k-Ω		<b>67505</b>		<b>67515</b>
10 k-Ω		<b>67502</b>		<b>67512</b>
100k-Ω		<b>67503</b>		<b>67513</b>

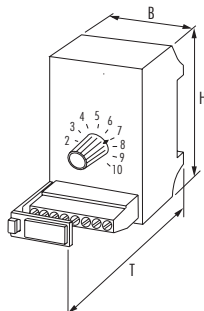
### Technical data

Pot. resistance tolerance	± 20 %		± 5 %
Linearity	± 3 %		± 0.25 %
Power: potentiometer	1 W		1.4 W (2 W at 40 °C)
Power: resistor	0.25 W		
Temperature range	0...+60 °C		
Mounting method	DIN-rail mounting EN 60715		
Dimensions H x B x T	75 x 45 x 65 mm		

### Description

Murrelektronik potentiometer modules can be fitted with individual potentiometers and are available in 2 standard versions. The first version is a simple 270° potentiometer, the second a 10-turn potentiometer with fine adjustment. The module operates with 10 V or 24 V DC. A resistor reduces the voltage so that a 24 V DC voltage can be reduced to operate between 0...11 V. The connection is via terminals. The modules are for mounting on DIN-rail to EN 60715.

### Dimension drawing



### Notes

The 10-turn potentiometer has a decimal scale and locking lever.

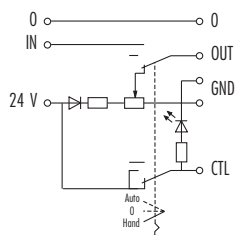
## 10-turn Potentiometer for use in Building Management Systems

### MPOT-H

Potentiometer for set-point adjustment with HAND-O-AUTO slide switch and CTL-monitoring output



#### Circuit diagram



#### Ordering data

10-turn

Art.-No.

Potentiometer value

1 k-Ohm

67581

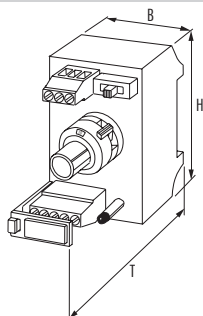
#### Technical data

Pot. resistance tolerance	± 5 %
Linearity	± 0.25 %
Power: potentiometer	1.4 W (2 W bat 40 °C)
Power: resistor	0.25 W
Control voltage	24 V DC
Switched current min./max.	5 mA/300 mA
Status indicator	yellow LED if CTL active (switch "HAND" or "0" position)
Temperature range	0...+60 °C
Mounting method	DIN-rail mounting EN 60715
Dimensions H x B x T	75 x 45 x 65 mm

#### Description

Murrelektronik MPOT-H modules are fitted with a HAND-OFF-AUTO slide switch. The analog output from, for example, a DDC is connected to the IN terminal and, if the slide switch is in the AUTO position, appears on the OUT terminal. When the slide switch is in the O (off) position the signal is removed from the OUT terminal. In the HAND position, which is supplied by 24 V DC, an analog signal can be manually set by means of the potentiometer. The slide switch position at "O" or "HAND" 24 V or CTL spring clamp terminals can be used as a signal.

#### Dimension drawing



#### Notes

The 10-turn potentiometer has a decimal scale and locking lever.

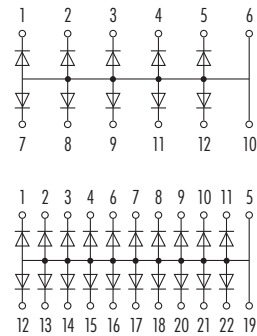
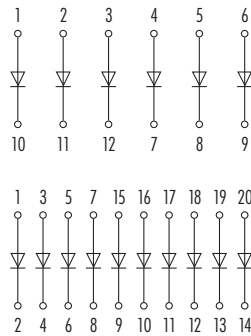
## DIN-rail mounting diode modules

**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
Single	10
Com. potential anode	10
Com. potential anode	20
Com. potential cathode	10
Com. potential cathode	20

**67063**  
**67066**

**67040**  
<sup>1)</sup>**67052**  
**67045**  
**67057**

### Technical data

Diode type	universal diode 1300 V, 1 A
Wiring method	screw terminals 4 mm <sup>2</sup>
Temperature range	-20...+60 °C
Mounting method	DIN-rail mounting to EN 60715 (TH35) or (G32)

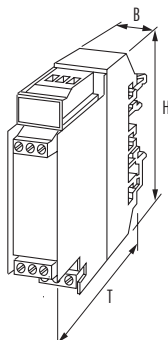
### Description

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



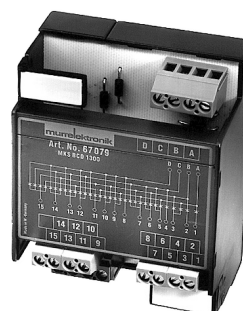
### Notes

## DIN-rail mounting diode modules

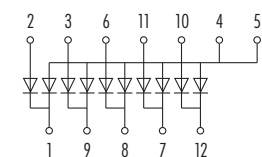
**MKS-LDP**  
diodes wired in pairs with common potential



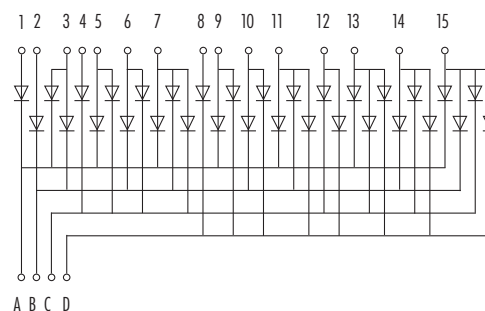
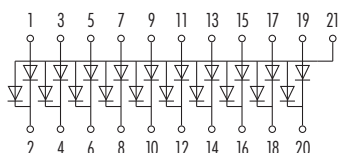
**MKS-BCD**  
diode logic for converting hexadecimal into binary numbers



### Circuit diagram



Picture:  
Com. potential anode



### Ordering data

Circuit	No. of diodes
Com. potential anode	5 pairs
Com. potential anode	10 pairs

### Art.-No.

**67072**  
**67096**

### Art.-No.

**67079**

### Technical data

Diode type	universal diode 1300 V, 1 A
Wiring method	screw terminals 4 mm <sup>2</sup>
Temperature range	-20...+60 °C
Mounting method	DIN-rail mounting to EN 60715 (TH35) or (G32)

### Description

diode gathered for lamp test function

diodes gathered to convert hexadecimal to binary numbers

### Dimensions H x B x T

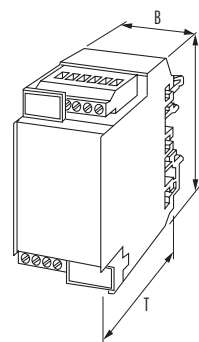
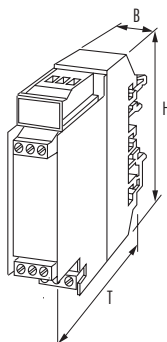
86 x 22.5 x 62 mm  
86 x 45 x 62 mm

67072  
67096

86 x 67.5 x 62 mm

67079

### Dimension drawing



### Notes

## Assembly modules for self-wiring of components

**MKS-M**  
screw terminals  
connected to solder tag pairs



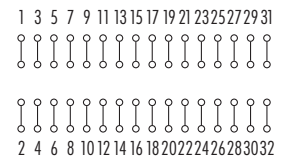
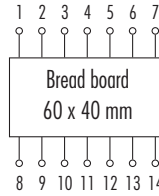
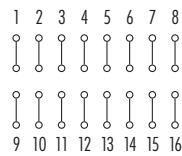
**ML 14**  
MCVO housing 14-pole  
with bread board



**MP**  
screw terminals  
connected to solder tag pairs



### Circuit diagram



### Ordering data

Pairs of solder pins

	Art.-No.	Art.-No.	Art.-No.
4	<b>67081</b>		
6			<b>62001</b>
6			<sup>1)</sup> <b>62030</b>
8	<b>67083</b>		
12			<b>62010</b>
14		<b>92200</b>	
16			<b>62020</b>

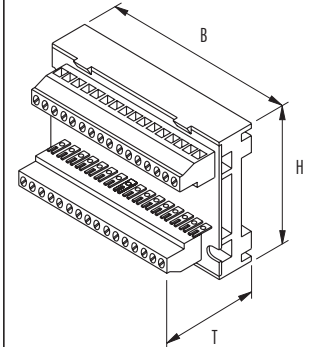
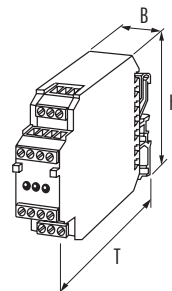
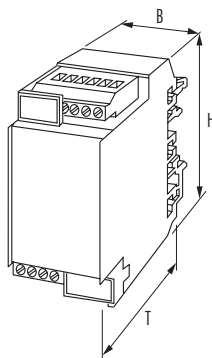
### Technical data

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 mm <sup>2</sup> ; connected to solder tag pairs spacing 5 mm		
Material	flame retardant plastic		
Housing	enclosed	MCVO housing, enclosed	open construction
Temperature range	-20...+60 °C		
Mounting method	DIN-rail mounting to EN 60715 (TH35) or (G32)		DIN-rail mounting to EN 60715 (TH35) or (G32) 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

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

## LED indicators for front panel mounting

### LED

plastic housing

### LED

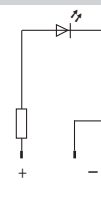
plastic housing  
with lamp test input

### LED 2F

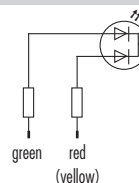
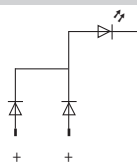
2 color LED  
in plastic housing



### Circuit diagram



Art.-No. 716012



### Ordering data

Ordering data		Art.-No.	Art.-No.	Art.-No.	Art.-No.
Voltage	LED-color				
	24 V	red	<b>71261</b>	<b>71361</b>	
		yellow	<b>71271</b>	<b>71371</b>	
		green	<b>71281</b>	<b>71381</b>	
		blue	<b>716012</b>		
		red/green			<b>71250</b>
110 V	yellow/green			<b>71255</b>	
	red	<b>71267</b>			
	yellow	<b>71277</b>			
230 V	green	<b>71287</b>			
	red	<b>71269</b>			
	yellow	<b>71279</b>			
	green	<b>71289</b>			
	blue	<b>716015</b>			

### Technical data

Voltage	24 V AC/DC	±15 %	24 V DC	±15 %	24 V DC	±15 %
	110 V AC/DC	±15 %	—	—	—	—
	230 V AC	±10 %	—	—	—	—

Current supply 10 mA each LED

LED Ø 5 mm

Connection Faston 2.8 x 0.8 mm

Protection to IEC529 (DIN 40050) IP65

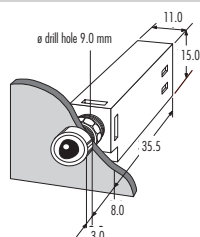
Temperature range -20...+50 °C

Housing flame retardant plastic

### Accessories

	Art.-No.
Mounting key for plastic nut	<b>71998</b>
Metal front nut	<b>71991</b>
Blind plug	<b>71995</b>

### Assembly/Dimension drawing



### Notes

The LED modules are suitable for wall thickness between 1.5 and 5.0 mm.

## LED indicators for front panel mounting

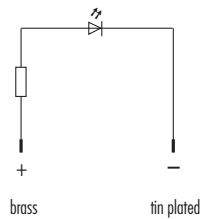
### LED 3 M metal housing

### LED 5 M metal housing

### LED 10 M metal housing



#### Circuit diagram

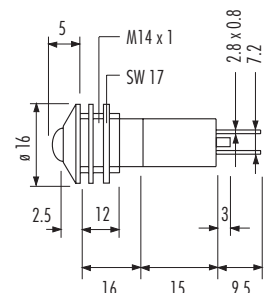
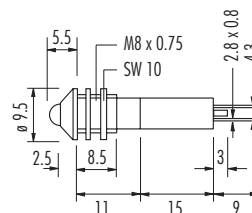
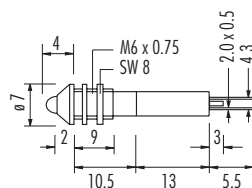


Ordering data		Art.-No.	Art.-No.	Art.-No.
Voltage	LED-color			
24 V DC $\pm 10\%$	red $\varnothing 3$ mm	<b>71403</b>		
	yellow $\varnothing 3$ mm	<b>71423</b>		
	green $\varnothing 3$ mm	<b>71443</b>		
24 V DC $\pm 10\%$	red $\varnothing 5$ mm		<b>71405</b>	
	yellow $\varnothing 5$ mm		<b>71425</b>	
	green $\varnothing 5$ mm		<b>71445</b>	
24 V DC $\pm 10\%$	red $\varnothing 10$ mm			<b>71410</b>
	yellow $\varnothing 10$ mm			<b>71430</b>
	green $\varnothing 10$ mm			<b>71450</b>

#### Technical data

Current supply	20 mA each LED		
LED	$\varnothing 3$ mm	$\varnothing 5$ mm	$\varnothing 10$ mm
Connection	Faston 2.0 x 0.5 mm	Faston 2.8 x 0.8 mm	
Protection to IEC 529 (DIN 40050)	IP40		
Temperature range	-30...+70 °C		
Housing	brass, chrome plated		
Dimension	$\varnothing 7$ x 33 mm	$\varnothing 9.5$ x 40 mm	$\varnothing 16$ x 45 mm
Front panel hole diameter	$\varnothing 6$ mm	$\varnothing 8$ mm	$\varnothing 14$ mm

#### Dimension drawing



#### Notes

+ connection brass, - connection tin plated