

## MVK I/O COMPACT MODULE, METAL

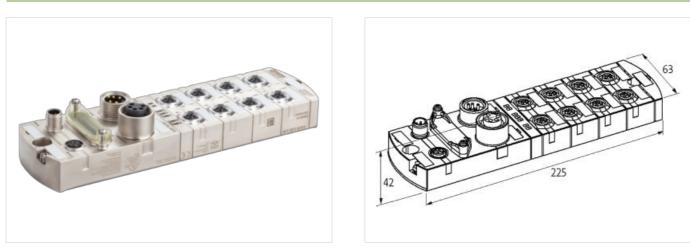
CANopen, 16 dig. In / Diag

Art.No.: 55304 Weight: 0.822 Country of origin: DE Model designation: MVK-MC DI8 (DI8)

**Digital inputs DI8 DI8** CAN 1 Mbit/s; M12, A-coded 7/8", 5-pole, 2× max. 9 A M12, 5-pole, A-coded Connection cables are in the online shop under "Connection Technology". Housing fully potted.

## Link to Product

## Illustration



Product may differ from Image



Commercial data		
ECLASS-6.0	27242604	
ECLASS-6.1	27242604	
ECLASS-7.0	27242604	
ECLASS-8.0	27242604	
ECLASS-9.0	27242604	
ECLASS-10.1	27242604	
ECLASS-11.1	27242604	
ECLASS-12.0	27242604	
ETIM-5.0	EC001599	
customs tariff number	85176200	
customs tariff number	85176200	
GTIN	4048879051514	
GTIN	4048879051514	
Packaging unit	1	
Packaging unit	1	

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Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com



## Electrical data | Supply

Electrical data   Supply	
Operating voltage DC	24 V
Norm operating voltage	EN 61131-2
Operating voltage US DC	24 V
Total current UA max.	9 A
Total current US max.	9 A
Electrical data   Input	
Type input	PNP, for 3-wire sensors or mechanical switches
Overload resistant	yes
Short-circuit protected	yes
Sensor current US per input max.	0,2 A
Industrial communication   Bus data	•
Address range min.	1
Address range max.	99
Industrial communication   CANopen	
CANopen addressing	Rotary switch
Diagnostics	
Actuator warning	per channel via LED and BUS
Diagnostic	No voltage, Under voltage
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
Short circuit diagnosis	yes
LED display	Ethernet connection/data traffic
Cable break	per port
Overload diagnosis	yes
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP67
Mechanical data   Mounting data	
Suitable for mounting type	2-hole screw mounting
Height	42 mm
Width	63 mm
Depth	225 mm
Environmental characteristics   Climat	
· ·	
Operating temperature min.	0 °C
Operating temperature max.	55 °C
Storage temperature min.	-20 °C
Storage temperature max.	70 °C
Connection type 5	
Connection type 1	4-7
Connection type 2	Bus In
Connection type 3	Bus Out
Connection type 4	Power In
Connection type 5	Power Out
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	5
PIN 1	24 V DC (US)
PIN 2	DI / Diag
PIN 3	0 V (US)
-	

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PIN 5         PE           Fanily construction form         M12           Gender         male           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Pamaly construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         O V (US)           PIN 2         O V (US)           PIN 3         PE<	PIN 4	DI
Gender         male           Color contact carrier         black           Coding         A           No. ot poles         5           PIN 1         Sheld           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7.8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7.8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1	PIN 5	PE
Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Coding         A           No. of poles         5           Ording         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_HIGH           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_HIGH           PIN 6         CAN_HIGH           PIN 7         Shield           PIN 8         CAN_HIGH           PIN 9         CAN_HIGH           PIN 4         CAN_HIGH           PIN 5         CAN_HIGH           PIN 6	Family construction form	M12
Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LICW           PIN 4         CAN_HIGH           PIN 5         CAN_LICH           PIN 4         CAN_HIGH           PIN 5         CAN_LICH           PIN 6         CAN_LICH           PIN 7         OALLOW           Family construction form         7/8'           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 4         24 V DC (UN) <td>Gender</td> <td>male</td>	Gender	male
No. of poles         5           PIN 1         Shield           PIN 2         V+           PIN 3         V-           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         Iemale           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (UA)           Family const	Color contact carrier	black
PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           Out contact carrier         black           PIN 4         CAN_LIOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (UA)           PIN 3         PE           PIN 4         24 V DC (UA)           Family construction form         7/8"	Coding	A
PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_LOW           Family construction form         78"           Gender         male           Color contact carrier         black           Color contact carrier         black           No. of poles         5           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         78"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         O V (UA)           PIN 2         O V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)	No. of poles	5
PIN 3         V -           PIN 4         CAN_LOW           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_LIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 1         0 V (US)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)           PIN 5         24 V DC (US)           PIN 5         24 V DC (US)           PIN 6         S           Family construction form         7/8"           Gender	PIN 1	Shield
PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 4         OAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)           PIN 6         24 V DC (US)           PIN 7         female	PIN 2	V +
PIN 5         CAN_LOW           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           Ool poles         5           PIN 4         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)           PIN 4         0 V (UA)           Family construction form         7/8*           Gender         female </td <td>PIN 3</td> <td>V -</td>	PIN 3	V -
Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         V +           PIN 3         V -           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8*           Gender         female           Color contact carrier         black </td <td>PIN 4</td> <td>CAN_HIGH</td>	PIN 4	CAN_HIGH
Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         V +           PIN 3         V -           PIN 4         CAN_LOW           Family construction form         7/8*           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8*           Gender         female           Color contact carrier         black           No. of poles         5	PIN 5	CAN_LOW
Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         S           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           Gender         female           Color contact carrier         black           No. of poles         5           O V (UA)         PIN 1           PIN 1         0 V (UA)           PIN 2	Family construction form	M12
Coding         A           No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 4         24 V DC (US)           PIN 5         5           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3 </td <td>Gender</td> <td>female</td>	Gender	female
No. of poles         5           PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 4         24 V DC (US)           PIN 5         24 V DC (US)           PIN 4         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           N 0. of poles         5           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 3         PE <td>Color contact carrier</td> <td>black</td>	Color contact carrier	black
PIN 1         Shield           PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US) <td>Coding</td> <td>A</td>	Coding	A
PIN 2         V +           PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Famile contact carrier         black           No. of poles         5           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	No. of poles	5
PIN 3         V -           PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	PIN 1	Shield
PIN 4         CAN_HIGH           PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           PIN 4         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (UA)           PIN 2         0 V (UA)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 3         PE           PIN 4         24 V DC (US)	PIN 2	V +
PIN 5         CAN_LOW           Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 4         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (UA)           PIN 2         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	PIN 3	V -
Family construction form         7/8"           Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	PIN 4	CAN_HIGH
Gender         male           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 3         PE           PIN 4         24 V DC (US)	PIN 5	CAN_LOW
Color contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)PIN 524 V DC (UA)Family construction form7/8"GenderfemaleColor contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (UA)PIN 3PEPIN 424 V DC (US)PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)	Family construction form	7/8"
No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (UA)           PIN 4         24 V DC (US)	Gender	male
PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	Color contact carrier	black
PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	No. of poles	5
PIN 3         PE           PIN 4         24 V DC (US)           PIN 5         24 V DC (UA)           Family construction form         7/8"           Gender         female           Color contact carrier         black           No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	PIN 1	0 V (UA)
PIN 424 V DC (US)PIN 524 V DC (UA)Family construction form7/8"GenderfemaleColor contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)	PIN 2	0 V (US)
PIN 524 V DC (UA)Family construction form7/8"GenderfemaleColor contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)		
Family construction form7/8"GenderfemaleColor contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)	PIN 4	24 V DC (US)
GenderfemaleColor contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)	PIN 5	24 V DC (UA)
Color contact carrierblackNo. of poles5PIN 10 V (UA)PIN 20 V (US)PIN 3PEPIN 424 V DC (US)	Family construction form	7/8"
No. of poles         5           PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	Gender	female
PIN 1         0 V (UA)           PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	Color contact carrier	black
PIN 2         0 V (US)           PIN 3         PE           PIN 4         24 V DC (US)	No. of poles	5
PIN 3         PE           PIN 4         24 V DC (US)	PIN 1	0 V (UA)
PIN 4 24 V DC (US)	PIN 2	0 V (US)
	PIN 3	PE
	PIN 4	24 V DC (US)
	PIN 5	24 V DC (UA)

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