

MVK - Compact I/O modules

Bus modules MVK
Profibus-DP

Input/output module

Protection IP67



Approvals

MVK-P



MVK-P



MVK

Ordering data	Art.-No.	Art.-No.
8 DI + 8 x diagnostic/ DI	55326	¹⁾ 55380
4 DI 4 DO + 8 x diagnostic/ DI	55328	
8 DO + 8 x diagnostic/ DI	55327	
8 DI/DO + 8 x diagnostic/ DI	55389	¹⁾ 55381
8 DI/DO + 8 x diagnostic/ DI/DO	55329	¹⁾ 55383

Field bus		
Supply voltage	24 V DC (18...30.2 V), to EN61131-2	
Type	Profibus-DP Slave	
Transfer protocol	Profibus-DP to EN50170	
Operating modes	sync- and freeze-mode are supported	
Transfer rate	up to 12 MBit/s	

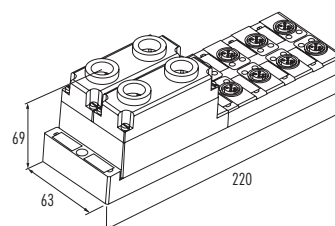
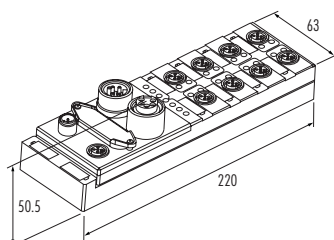
Inputs		
Type	for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port	
Status indicator	1 yellow LED per input	

Outputs		
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 9 A	24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 12.8 A
Switching current per output	1.6 A, short-circuit and overload protected	
Filament lamp load	10 W	
Max. switching frequency	resistive load: 50 Hz; inductive load: 20 Hz	
Status indicator	1 yellow LED per output	

Diagnostic		
Field bus	RUN-LED	
Under voltage	combined LED and alarm to the master	
Short-circuit sensor/actuator	red LED per channel to M12 port	
Diagnostic to DESINA® (PIN 2)	PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data	

General data		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)	
Mounting method	2-hole screw mounting	
Dimensions	220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm)	220 x 63 x 69 mm (drill plan 208.5 ± 0.5 mm)

Dimension drawing



Notes		
	Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4... ¹⁾ 2 shielded screw fixings supplied.	

Bus modules MVK
DeviceNet mini

Input/output module

Protection IP67

DeviceNet
CONFORMANCE TESTED

Approvals

MVK-DN



MVK

Ordering data	Art.-No.
8 DI + 8 x diagnostic/ DI	55311
4 DI 4 DO + 8 x diagnostic/ DI	55313
8 DO + 8 x diagnostic/ DI	55314
8 DI/DO + 8 x diagnostic/ DI/DO	55312

Field bus	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2
Type	prod. type 7; generic I/O module
Transfer protocol	CAN; layer 7 DeviceNet (ODVA conformance tested)
Operating modes	polling; change of state; cyclic
Transfer rate	125 kBit/s; 250 kBit/s; 500 kBit/s
Bus connector	mini connector (7/8")

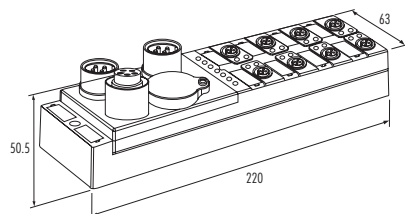
Inputs	
Type	for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port
Status indicator	1 yellow LED per input

Outputs	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, $I_{\text{total}} \leq 9$ A
Switching current per output	1.6 A, short-circuit and overload protected
Filament lamp load	10 W
Max. switching frequency	resistive load: 50 Hz; inductive load: 20 Hz
Status indicator	1 yellow LED per output

Diagnostic	
Field bus	MS-LED, NS-LED
Under voltage	combined LED and alarm to the master
Short-circuit sensor/actuator	red LED per channel to M12 port
Diagnostic to DESINA® (PIN 2)	PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data

General data	
Temperature range	0...+ 55 °C (storage temperature - 20...+ 70 °C)
Mounting method	2-hole screw mounting
Dimensions	220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm)

Dimension drawing



Notes	
Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...	

Bus modules MVK
Interbus

Input/output module

Protection IP67



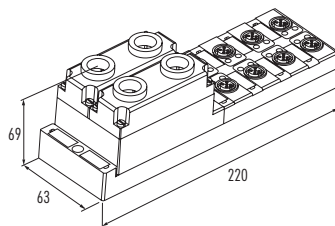
Approvals

MVK-I



MVK

Ordering data	Art.-No.	Art.-No.
8 DI + 8 x diagnostic/ DI	housing blue/black	55330
4 DI 4 DO + 8 x diagnostic/ DI	housing black	55331
8 DO + 8 x diagnostic/ DI	housing gray/black	55332
8 DI/DO + 8 x diagnostic/ DI	housing black	55336
8 DI/DO + 8 x diagnostic/ DI/DO	housing black	55335
Field bus		
Supply voltage	24 V DC (18...30.2 V), to EN61131-2	
Type	remote bus/installations remote bus participants (slave)	
Transfer protocol	Interbus to DIN EN 50254	
Transfer rate	500 kBit/s	
Inputs		
Type	for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port	
Status indicator	1 yellow LED per input	
Outputs		
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 12.8 A	
Switching current per output	1.6 A, short-circuit and overload protected	2 A, short-circuit and overload protected
Filament lamp load	10 W	
Max. switching frequency	resistive load: 50 Hz; inductive load: 20 Hz	
Status indicator	1 yellow LED per output	
Diagnostic		
Field bus	BA-, RD-, RC-LEDs	
Under voltage	combined LED and alarm to the master	
Short-circuit sensor/actuator	red LED per channel to M12 port	
Diagnostic to DESINA® (PIN 2)	PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data	
General data		
Temperature range	0...+ 55 °C (storage temperature - 20...+ 70 °C)	
Mounting method	2-hole screw mounting	
Dimensions	220 x 63 x 69 mm (drill plan 208.5 ± 0.5 mm)	
Dimension drawing		



Notes
4 separate voltages for bus electronic/sensor, actuator on left side and actuator on right side. Cable compression glands are not supplied. Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...

Bus modules MVK DESINA®

Input/output module

Protection IP67



Approvals 

MVK-DESINA® LWL ECOFAST®

fibre optic cable (F.O.)



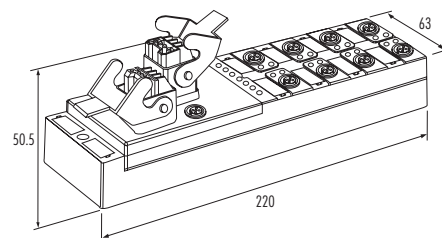
MVK-DESINA® CU ECOFAST®

copper

Ordering data	Art.-No.	Art.-No.
8 DI/DO + 8 x diagnostic/ DI	55325	55378

Technical data	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2
Type	Profibus-DP slave
Transfer protocol	Profibus-DP to EN50170
Operating modes	sync- and freeze-mode are supported
Transfer rate	up to 12 MBit/s
Inputs	
Type	for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible
Supply voltage	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female
Status indicator	1 LED yellow per input
Outputs	
Supply voltage	24 V DC (18...30.2 V), to EN61131-2; I-total ≤ 10 A
Switching current per output	1.6 A, short-circuit and overload protected
Filament lamp load	10 W
Max. switching frequency	resistive load: 50 Hz; inductive load: 20 Hz
Status indicator	1 LED yellow per output
Diagnostic	
Field bus	RUN-LED
Under voltage	combined LED and alarm to the master
Short-circuit sensor/actuator	red LED per channel to M12 port
Diagnostic to DESINA® (PIN 2)	PIN 2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data
General data	
Temperature range	0...+55 °C (storage temperature -20...+75 °C)
Mounting method	2-hole screw mounting
Dimensions	H x W x D 220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm)

Dimension drawing



Notes
Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...