

MVK - Compact I/O modules

Bus modules MVK
Profibus-DP

Input/output module

Protection IP67



Approvals 

MVK-P

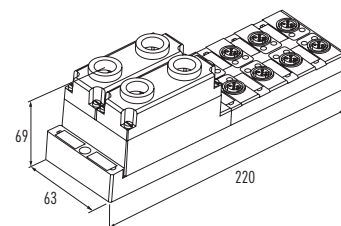
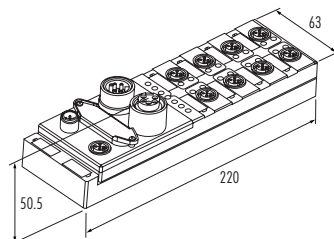


MVK-P



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

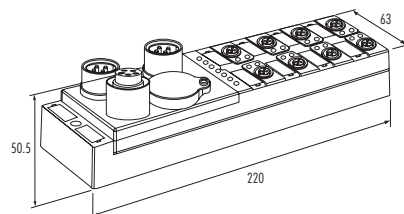
DeviceNet
CONFORMANCE TESTED

Approvals 

MVK-DN



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-total ≤ 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

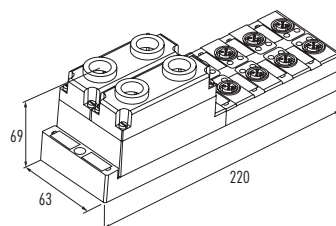


Approvals 

MVK-I



Ordering data		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...
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MVK - Compact I/O modules



Bus modules MVK
DESINA®

Input/output module

Protection IP67



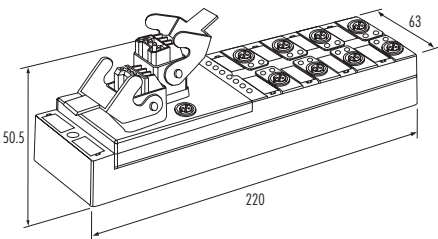
Approvals

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...