



# MASI67

## FLAT CABLES TAKE SYSTEMS INTO THE FIELD

- One module switches off two circuits
- Active and passive components
- Flat cable can be inserted multiple times

### AS INTERFACE SYSTEM – MASI67

With MASI67, Murrelektronik provides an optimized installation system for mechanical engineering. The potted I/O modules are extremely resistant to mechanical influences such as vibration and shocks, and are sealed to meet industrial requirements. Having two outputs in one M12 port reduces valve installation by as much as 50 %.

The product range is supplemented with passive installation technology modules with practical interfaces for round cables, which are typically used in C-track applications.

They are designed according to the latest 3.0 AS Interface specification and have the globally recognized AS Interface certification, which guarantees that they are interoperable and a secure investment. With the special K3 module you can create safety shut downs according to EN 13849-1 up to PL d.



#### ➤ MASI65

For I/O modules, accessories and more information about MASI65 see our **online-Shop**:

➤ [onlineshop.murrelektronik.com](http://onlineshop.murrelektronik.com)

MASI67

### I/O-Modules



- With M8 connections**
- IP67 protection

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- With M12 connections**
- IP67 protection

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- With M12 connections and safe outputs**
- IP67 protection
  - Two release circuits
  - Safety

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### Installation Technology



- Converter
- Accessories

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# MASI67

## Digital inputs

### – M8 Round Plug Connectors

#### MASI67

DI4 - 0.2 A (AB) 4×M8

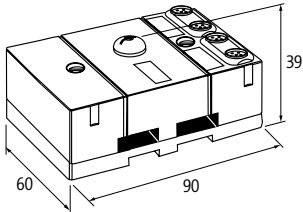
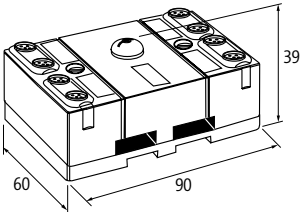


#### MASI67

DI8 - 0.24 A (AB) 8×M8



Approvals:    

Order Data	Art-No.	Art-No.
DI4 - 0.2 A (AB) 4×M8	56405	
DI8 - 0.24 A (AB) 8×M8		56406
Technical Data		
Bus voltage (AS-Interface)	26.5...31.6 V DC	
Total current (AS-Interface)	max. 250 mA	max. 290 mA
Addressing	via built-in address port or master	
Address range	1...62 (1...31 A or B)	2 × 1...62 (2 × 1...31 A or B)
Profile (IO/ID/ID2 code)	S-0.A.0	2 × S-0.A.0
Input		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)	
Sensor supply US	max. 200 mA from AS-Interface (short-circuit and overload protected)	max. 240 mA from AS-Interface (short-circuit and overload protected)
Diagnostic		
Communication status	via LED	
Diagnostic via LED	per module	
Monitoring - no voltage	yes	
General data		
Protection	IP67	
Temperature range	-20...+60 °C (storage temperature -20...+70 °C)	
Mounting method	DIN-rail mountable (EN 60715) or screw fixing	
Dimension drawing		
		
Notes		

# MASI67

## Digital inputs and outputs

### – M8 Round Plug Connectors

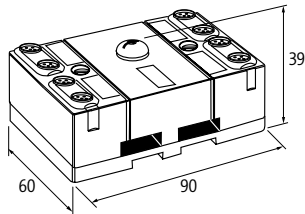
Approvals:    

## MASI67

DI4 - 0.2 A DO4 - 0.5 A 8×M8



Order Data	Art-No.
DI4 - 0.2 A DO4 - 0.5 A 8×M8	56408
Technical Data	
Bus voltage (AS-Interface)	26.5...31.6 V DC
Total current (AS-Interface)	max. 250 mA
Addressing	via built-in address port or master
Address range	1...31
Profile (IO/ID/ID2 code)	S-7.0.E
Input	
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)
Sensor supply US	max. 200 mA from AS-Interface (short-circuit and overload protected)
Output	
Supply voltage	24 V DC external (18...30.2 V DC) EN 61131-2, connection via black AS-Interface profile cable
Switching current per output	max. 0.5 A (short-circuit and overload protected)
Total current	max. 2 A
Diagnostic	
Communication status	via LED
Diagnostic via LED	per module
Monitoring - no voltage	yes
General data	
Protection	IP67
Temperature range	-20...+60 °C (storage temperature -20...+70 °C)
Mounting method	DIN-rail mountable (EN 60715) or screw fixing
Dimension drawing	



## Notes

# MASI67

## Digital inputs and outputs

### – M12 Round Plug Connectors

Approvals:

#### MASI67

DI4 - 0.2 A (AB) 4×M12



#### MASI67

DI8 - 0.24 A (AB) 4×M12

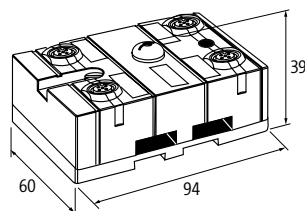
#### MASI67

DI4 - 16 A DO4 - 2 A 4×M12



Order Data	Art-No.		Art-No.	
DI4 - 0.2 A (AB) 4×M12	56400			
DI8 - 0.24 A (AB) 4×M12			56401	
DI4 - 16 A DO4 - 2 A 4×M12			56404	
Technical Data				
Bus voltage (AS-Interface)	26.5...31.6 V DC			
Total current	max. 250 mA	max. 290 mA	max. 50 mA	
Addressing	via built-in address port or master			
Address range	1...62 (1...31 A or B)	2 × 1...62 (2 × 1...31 A or B)	1...31	
Profile (IO/ID/ID2 code)	S-0.A.0	S-0.A.2	S-7.F.E	
Double assignment of M12 female	no	yes		
PIN 2 and PIN 4 of M12 female bridged	yes	no	–	
Input				
Sensor supply US	max. 200 mA from AS-Interface (short-circuit and overload protected)	max. 240 mA from AS-Interface (short-circuit and overload protected)	max. 1.6 A from AS-Interface (short-circuit and overload protected)	
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)			
Output				
Actuator supply UA	–	–	24 V DC external (18...30.2 V DC) EN 61131-2	
Switching current per output	–	–	max. 2 A (short-circuit and overload protected)	
Total current	–	–	max. 8 A	
Diagnostic				
Communication status	via LED			
Diagnostic via LED	per module			
Diagnostic via BUS	yes	–		
Monitoring - no voltage	–	yes		
General data				
Protection	IP67			
Temperature range	-20...+60 °C (storage temperature -20...+70 °C)			
Mounting method	DIN-rail mountable (EN 60715) or screw fixing			
Connection	–		AS-Interface profile cable (black)	

### Dimension drawing



Notes

# MASI67

## Digital inputs

- Passive
- output groups up to PLd (EN ISO 13849-1) can be switched off via safety relays
- M12 Round Plug Connectors

Approvals:  

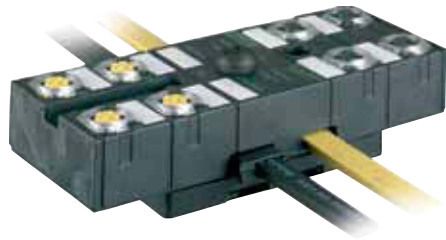
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DI4 - 0.2 A DO4 - 1.6 A (AB) 4×M12 (K3)



### MASI67

DI8 - 0.34 A DO8 - 1.6 A (AB) 8×M12 (K3)



Order Data	Art-No.	Art-No.
DI4 - 0.2 A DO4 - 1.6 A (AB) 4×M12 (K3)	56414	
DI8 - 0.34 A DO8 - 1.6 A (AB) 8×M12 (K3)		56415

Technical Data		
Bus voltage (AS-Interface)	26.5...31.6 V DC	
Total current	max. 250 mA	max. 440 mA
Addressing	via built-in address port or master	
Address range	1...62 (1...31 A or B)	2 × 1...62 (2 × 1...31 A or B)
Profile (IO/ID/ID2 code)	S-7.A.7	2 × S-7.A.7
Double assignment of M12 female	yes	

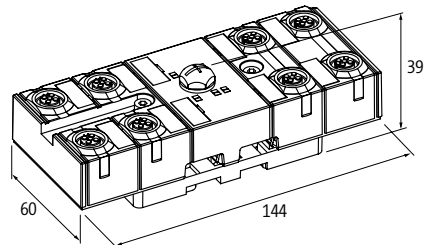
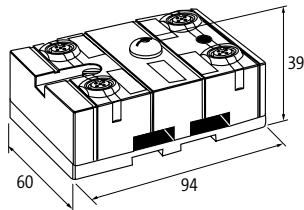
Input		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)	
Sensor supply US	max. 200 mA from AS-Interface (short-circuit and overload protected)	max. 340 mA from AS-Interface, (short-circuit and overload protected)

Output		
Supply voltage	24 V DC external (18...30.2 V DC) EN 61131-2, connection via black AS-Interface profile cable	24 V DC external (18...30.2 V DC) EN 61131-2, connection via black AS-Interface profile cable, 2 safely separated supplies possible
Switching current per output	max. 1.6 A (short-circuit and overload protected)	
Total current	2 × 3.2 A	2 × 4 A



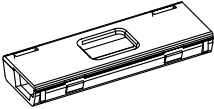





Diagnostic		
Communication status	via LED	
Diagnostic via LED	per module	
Monitoring - no voltage	yes	

General data		
Protection	IP67	
Temperature range	-20...+60 °C (storage temperature -20...+70 °C)	
Mounting method	DIN-rail mountable (EN 60715) or screw fixing	

### Dimension drawing



### Notes


Accessories			Art-No.
	<b>End gasket</b>		
		Quantity: 2 pieces right + 2 pieces left	55061
	<b>Middle gasket</b>		
		Quantity: 2 pcs.	55062
	<b>Coding element - short</b>		
	for MASI67	Quantity: 2 pcs.	55059
	<b>Coding element - long</b>		
	for MASI67	Quantity: 2 pcs.	55060
	<b>MASI Z-Plug</b> Passive bus terminator	AS-Interface	55779
	<b>Programming device</b>		
		AS-Interface	55696
	<b>Spare cable</b>		
		AS-Interface programming device	55727
Blind Plug/caps			Art-No.
	<b>Screw plug M8 x 1 mm (for female)</b>		
	Plastic, hex	Quantity: 10 pcs.	3858627
	<b>Screw plug M12 x 1 mm</b>		
	Plastic, hex	Quantity: 4 pcs.	55468

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Connection accessories			Art-No.
	<b>AS-Interface Distributor</b> from profile to profile cable	AS-Interface	55749
	<b>Mounting bracket</b> Quantity: 50 pcs. from profile cable to M12	AS-Interface profile cable	55742
	2-pole	AS-Interface	55741
Installation technology			Art-No.
	<b>MASI67 converter</b> 2 × profile cable to 7/8" (female)	AS-Interface	55035
	<b>MASI67 converter</b> 2 × profile cable to 7/8" (male)	AS-Interface	55036
	<b>MASI67 converter</b> 2 × profile cable to M12 (female)	AS-Interface	55037
	<b>MASI67 converter</b> 2 × profile cable to M12 (male)	AS-Interface	55038
	<b>MASI67 distribution boxes</b> 1 × on 3 × profile cable	AS-Interface	55034
	<b>MASI67 connection</b> 2 × on 2 × profile cable	AS-Interface	55033
	<b>MASI67 passive distribution box</b> 2 × profile cable to 4 × M12 (female)	AS-Interface	56412

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Installation technology			Art-No.
	<b>MASI67 passive distribution box</b> 2 x profile cable to 4 x M12 (female) 2 separate circuits	AS-Interface	<b>56416</b>