

## General constructive layout of the system cable MISK

### System cable with front connector

**MISK**  
50-pole SUB-D connector



**MISK**  
25-pole SUB-D connector



**MISK**  
2 x 25-pole SUB-D connector



#### Technical data

Connector		1 x SUB-D 50, 60°	1 x SUB-D 25, 0°	2 x SUB-D 25, 0°
Wire diameter in resp. to cable length	0.5... 9.5 m 10.0... 25.0 m	1 x 44 x 0.25 mm <sup>2</sup> 1 x 44 x 0.34 mm <sup>2</sup>	* 1 x 24 x 0.25 mm <sup>2</sup> * 1 x 24 x 0.34 mm <sup>2</sup>	2 x 24 x 0.25 mm <sup>2</sup> 2 x 24 x 0.34 mm <sup>2</sup>
Fixing		screw fixing UNC 4 - 40	screw fixing UNC 4 - 40	screw fixing UNC 4 - 40
I/O connector		each to PLC-type	each to PLC-type	each to PLC-type

### System cable with I/O connector

**MISK**  
15-pole SUB-D connector,  
14-pole Front plug connector  
with Front plug adapter



**MISK**  
50-pole SUB-D connector  
with open ended wire



**MISK**  
25-pole SUB-D connector  
with open ended wire



#### Technical data

Connector		15-pole SUB-D/14-pole front plug connector	1 x SUB-D 50, 60°	1 x SUB-D 25, 0°
Wire diameter in resp. to cable length	0.5... 9.5 m 10.0... 25.0 m	1 x 14 x 0.14 mm <sup>2</sup> —	1 x 44 x 0.25 mm <sup>2</sup> 1 x 44 x 0.34 mm <sup>2</sup>	* 1 x 24 x 0.25 mm <sup>2</sup> * 1 x 24 x 0.34 mm <sup>2</sup>
Fixing		screw fix UNC 4 - 40/snap fix	screw fixing UNC 4 - 40	screw fixing UNC 4 - 40
I/O connector		Adapter S5 135/155	—	—

#### Notes

Item number for individual cable on request. \* At the analog signal the cables are shielded.  
If your cable is not shown, please ask. We can deliver the desired cable in a short time.

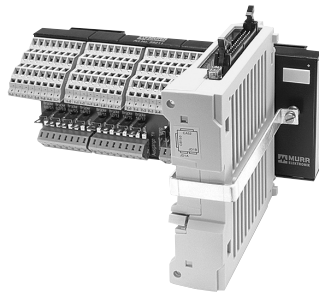
**Passive interface modules  
screw terminals with blade  
contacts**

**3-wire**

**for GE-FANUC controllers**

## MISP-8AI/AO<sup>1)</sup>

for I/O Link



## MISP-16AI/AO<sup>1)</sup>

for FSSB



Ordering data		Art.-No.	Art.-No.
MISP - 24DI/16DO		<b>59211</b>	
MISP - 16DO		<b>59212</b>	
MISP - 32DI/24DO basic module			<b>546305</b>
MISP - 32DI/24DO expansion module			<b>546303</b>
Technical data			
Supply voltage	24 V DC		
Supply current each bit	max. 1 A		
Status indicator signals/supply	yellow/green LED		
Connector	50-pole spring clamp terminals	2 x 34-pole spring clamp terminals	
Fixing	screw fixing UNC 4 - 40		
Mounting method	DIN-rail mounting to EN 60715	mounting at FANUC-controllers	
Dimensions H x W x D	202.5 x 68 x 86 mm	140 x 82 x 66 mm	
Temperature range	-20...+ 60 °C		

### Notes

<sup>1)</sup> Controller not included.

## Passive interface modules

### 1-wire

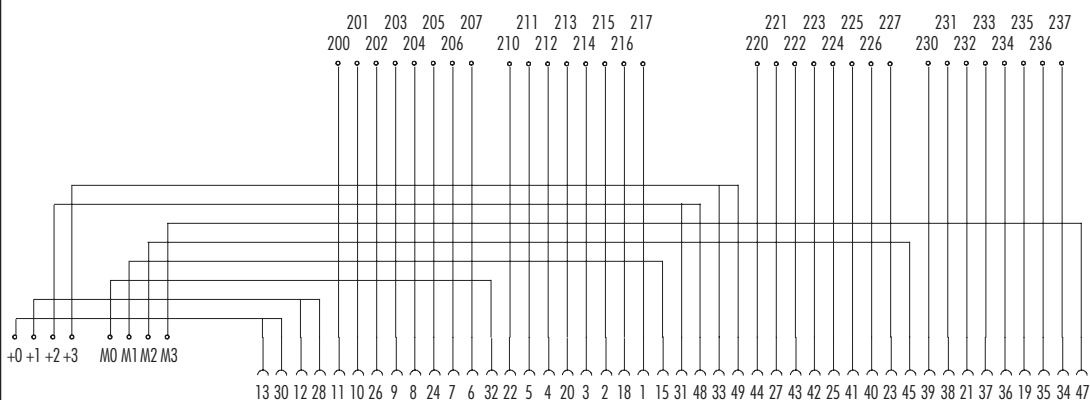
### MISP-32DI/DO

screw terminals



## Circuit diagram

Art.-No. 596038



## Ordering data

MISP - 32DI/DO screw terminal

## Art.-No.

**596038**

## Technical data

Supply voltage	125 V AC/150 V DC
Supply current each bit	max. 3 A
Connector	50-pole SUB-D female to DIN 41652
Fixing	screw fixing UNC 4 - 40
Mounting method	DIN-rail mounting to EN 60715
Dimensions H x W x D	63 x 100 x 52 mm
Temperature range	-20...+ 60 °C

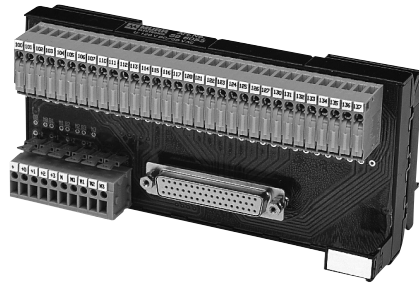
## Notes

## Passive interface modules

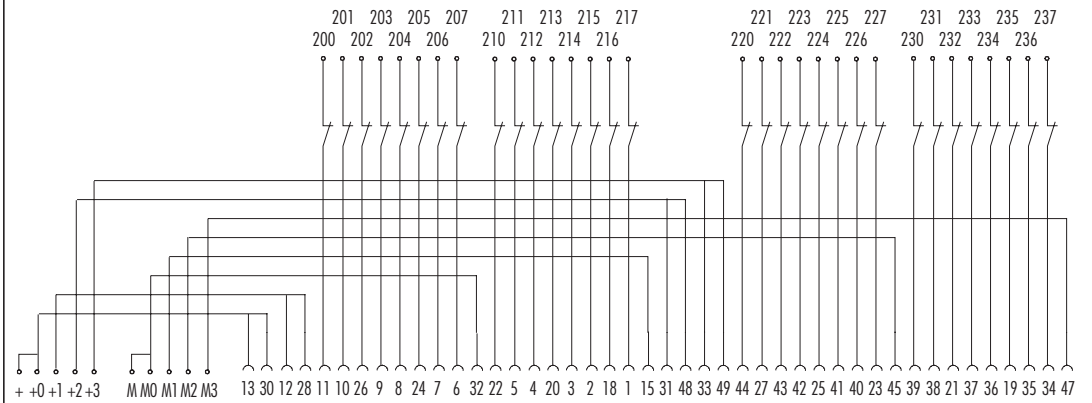
### 1-wire

### MISP-32DI/DO

screw terminals with blade contacts



### Circuit diagram



System wiring MIS

### Ordering data

MISP - 32DI/DO

### Art.-No.

**596055**

### Technical data

Supply voltage	125 V AC/150 V DC
Supply current each bit	max. 3 A
Connector	50-pole SUB-D female to DIN 41652
Fixing	screw fixing UNC 4 - 40
Mounting method	DIN-rail mounting to EN 60715
Dimensions H x W x D	86 x 180 x 75 mm
Temperature range	-20...+60 °C

### Notes

## Passive interface modules

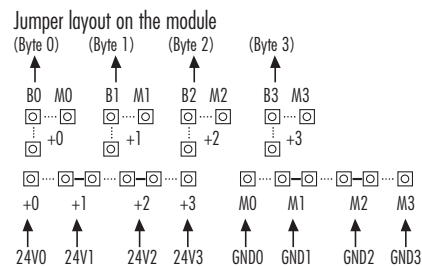
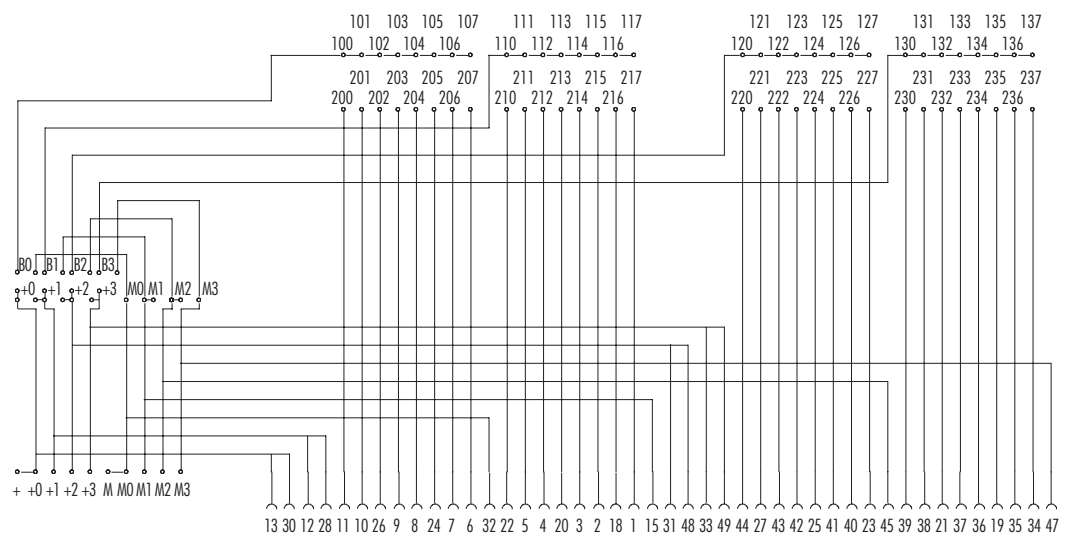
### 2-wire

## MISP-32DI/DO

screw terminals



### Circuit diagram



### Ordering data

MISP - 32DI/DO

### Art.-No.

596035

### Technical data

Supply voltage	max. 125 V AC, 150 V DC
Supply current each bit	max. 3 A
Connector	50-pole SUB-D female to DIN 41652
Fixing	screw fixing UNC 4 - 40
Mounting method	DIN-rail mounting to EN 60715
Dimensions H x W x D	63 x 165 x 48 mm
Temperature range	-20...+60 °C

### Notes

## Passive interface modules

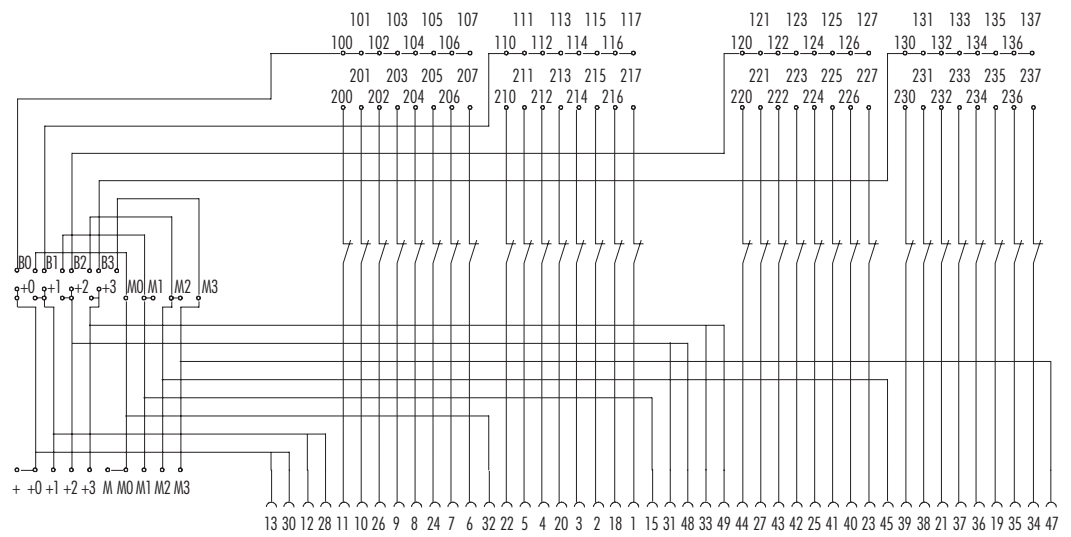
### 2-wire

### MISP-32DI/DO

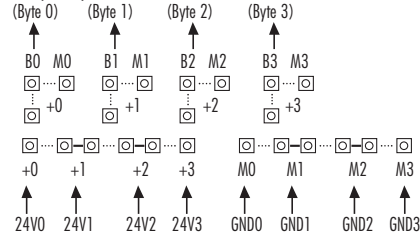
screw terminals with blade contacts



### Circuit diagram



#### Jumper layout on the module



### Ordering data

MISP - 32DI/DO

### Art.-No.

596095

### Technical data

Supply voltage max. 125 V AC, 150 V DC

Supply current each bit max. 3 A

Connector 50-pole SUB-D female to DIN 41652

Fixing screw fixing UNC 4 - 40

Mounting method DIN-rail mounting to EN 60715

Dimensions H x W x D 63 x 95 x 48 mm

Temperature range -20...+60 °C

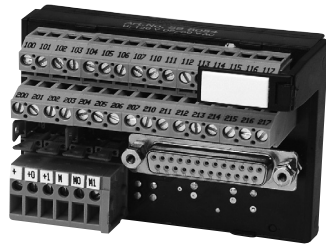
### Notes

## Passive interface modules

### 2-wire

### MISP-16DI/DO

screw terminals



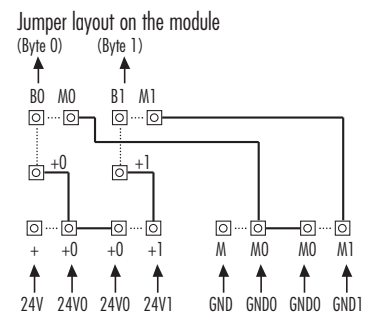
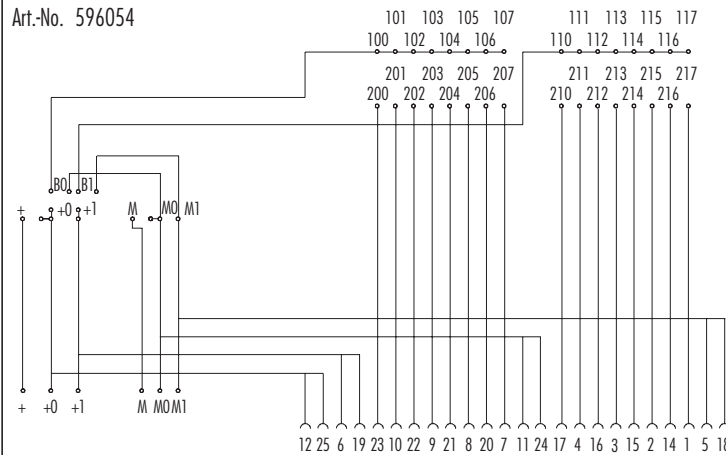
### MISP-8DI/DO

screw terminals

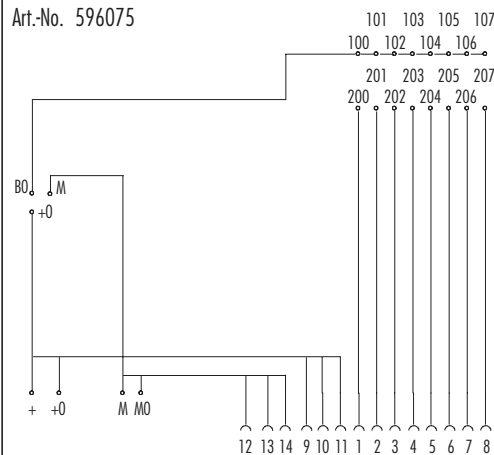


## Circuit diagram

Art.-No. 596054



Art.-No. 596075



Ordering data	Art.-No.	Art.-No.
MISP - 16DI/DO	<b>596054</b>	
MISP - 8DI/DO		<b>596075</b>
Technical data		
Supply voltage	max. 125 V AC, 150 V DC	
Supply current each bit	max. 3 A	
Connector	25-pole SUB-D female to DIN 41642	15-pole SUB-D female to DIN 41642
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions H x W x D	63 x 95 x 48 mm	63 x 75 x 48 mm
Temperature range	-20...+ 60 °C	
Notes		

## Passive interface modules

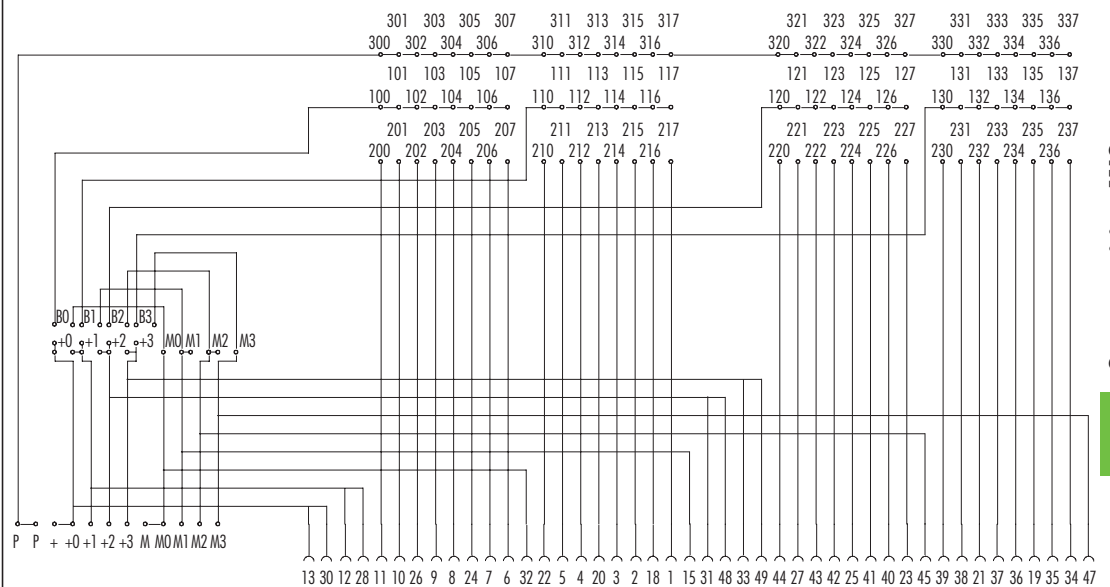
### 3-wire

### MISP-32DI/DO

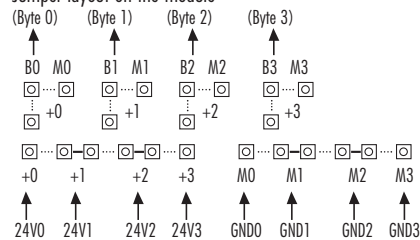
screw terminals



### Circuit diagram



#### Jumper layout on the module



Ordering data		Art.-No.
MISP - 32DI/DO		<b>596056</b>
Technical data		
Supply voltage	max. 125 V AC, 150 V DC	
Supply current each bit	max. 3 A	
Connector	50-pole SUB-D female to DIN 41652	
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions H x W x D	86 x 180 x 75 mm	
Temperature range	-20...+ 60 °C	
Notes		

## Passives interface modules

### 3-wire

#### MISP-8AI/AO

screw terminals  
specified for Allen Bradley



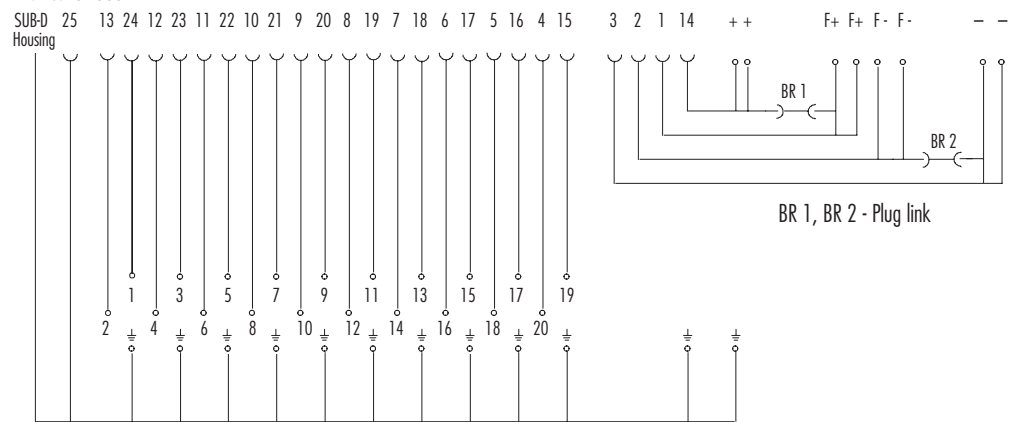
#### MISP-8AI/AO

screw terminals

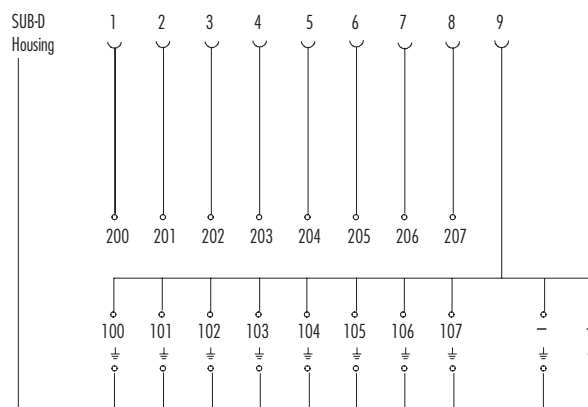


### Circuit diagram

Art.-No. 596057



Art.-No. 596053



### Ordering data

MISP - 8AI/AO – ABB

MISP - 8AI/AO

### Technical data

Supply voltage

Supply current each bit

Connector

Fixing

Mounting method

Dimensions H x W x D

Temperature range

### Art.-No.

596053

### Art.-No.

596057

max. 125 V AC, 150 V DC

max. 3 A

9-pole SUB-D female to DIN 41652

screw fixing UNC 4 - 40

DIN-rail mounting to EN 60715

75 x 70 x 85 mm

-20...+ 60 °C

max. 30 V DC

max. 0.5 A

25-pole SUB-D female to DIN 41652

screw fixing UNC 4 - 40

DIN-rail mounting to EN 60715

90 x 86 x 75 mm

### Notes

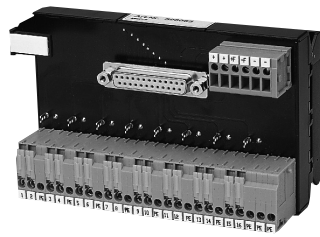
## Passive interface modules

2-wire

4-wire

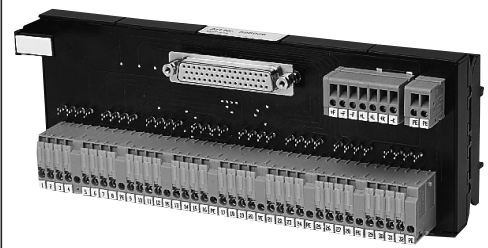
### MISP-8AI/AO

screw terminals with blade contact



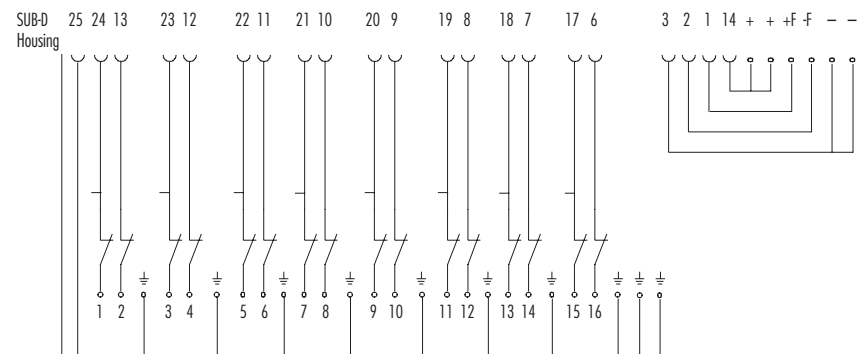
### MISP-16AI/AO

screw terminals with blade contact

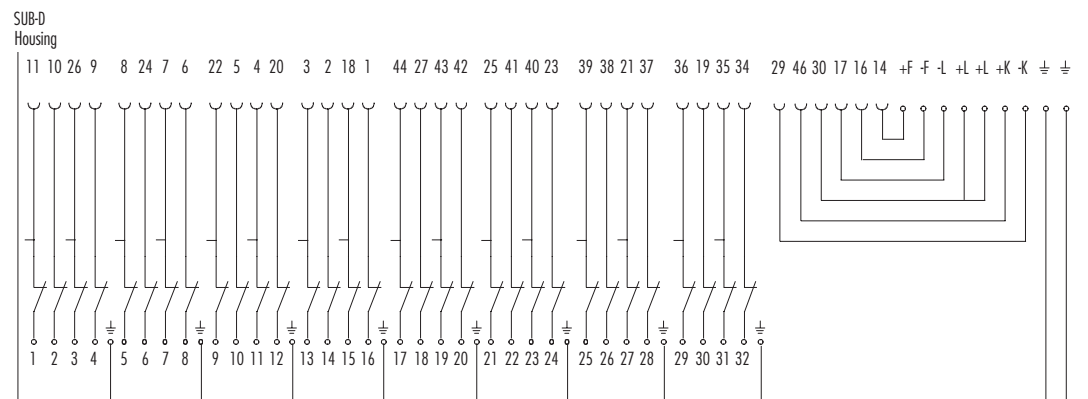


## Circuit diagram

Art.-No. 596065



Art.-No. 596066



Ordering data	Art.-No.	Art.-No.
MISP - 8AI/AO	596065	
MISP - 16AI/AO		596066
Technical data		
Supply voltage	max. 50 V AC/DC	
Supply current each bit	max. 1 A	
Connector	25-pole SUB-D female to DIN 41652	50-pole SUB-D female to DIN 41652
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions H x W x D	86 x 135 x 75 mm	86 x 225 x 75 mm
Temperature range	-20...+60 °C	
Notes		

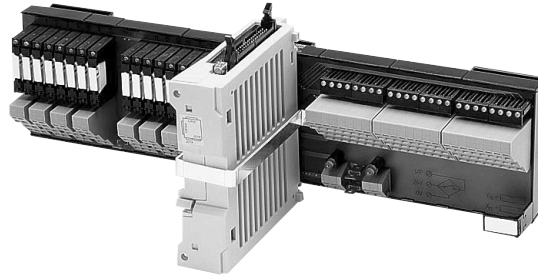
## Active interface module

3-wire

for GEFANUC controllers

## MISR-24DI/16DO <sup>1)</sup>

with safe separation



### Ordering data

MISR -24 DI/16 DO

### Art.-No.

\*546298

### Technical data

Input voltage (PLC output)	24 V DC
Connection current each bit	approx. 14 mA
Status indicator	LED yellow/green
Switched voltage (field side)	250 V AC/DC
Switched current	max. 3 A
Min. load current	10 mA
Contact/contact material	N/O contacts/Ag Sn O <sub>2</sub>
Switch on, drop off and bounce time	8/20/2 ms
Mechanical relay (replacable)	Art.-No. 61513
Semiconductor (replacable)	—
Mounting method	DIN-rail mounting to EN 60715
Dimensions H x W x D	337 x 68 x 86 mm
Temperature range	-20...+60 °C

### Notes

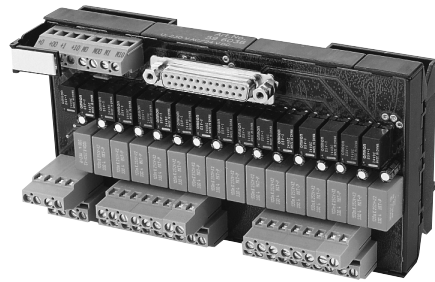
Opto-coupler and other voltages on request. <sup>1)</sup> Controller not included.  
 \* Safe separation to DIN VDE 0106 part 101. Root doubled

System wiring MIS

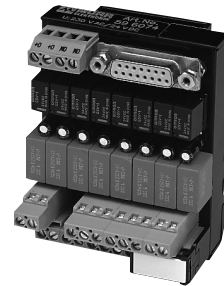
## Active interface module

### Input relay

#### MISR-16DI

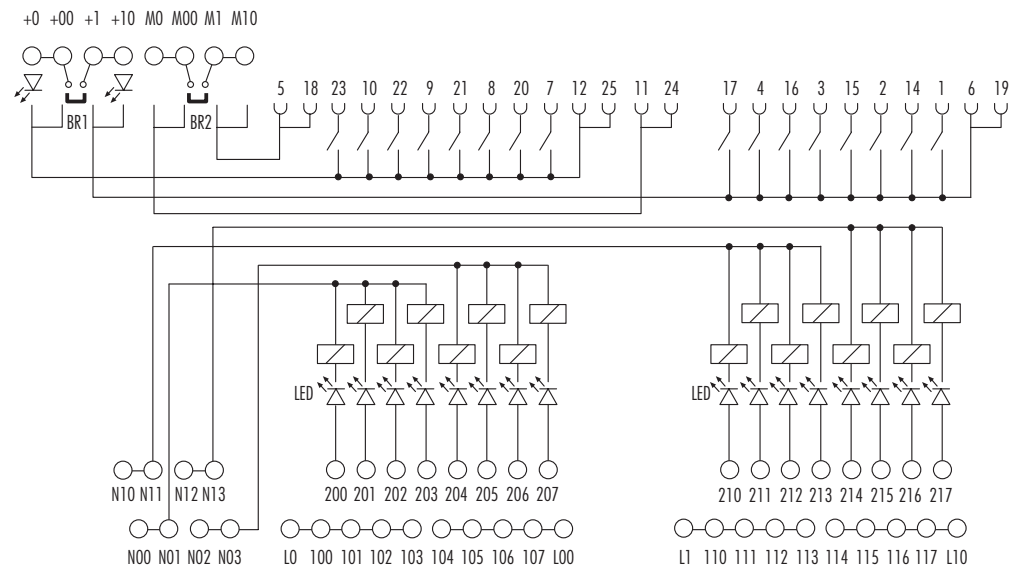


#### MISR-8DI



### Circuit diagram

Art.-No. 596036

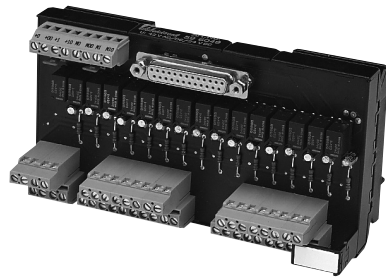


Ordering data	Art.-No.	Art.-No.
MISR - 16DI	<b>596036</b>	
MISR - 8DI		<b>596074</b>
Technical data		
Input voltage (field side)	230 V AC + 10 % – 15 %	
Connection current each bit	max. 10 mA	
Status indicator	yellow LED	
Switched voltage (PLC input)	24 V DC	
Switched current	max. 1 A	
Min. load current	1 mA	
Connector	25-pole SUB-D female to DIN 41652	15-pole SUB-D female to DIN 41652
Contact material	Ag + Au plated	
Switch on, drop off and bounce time	5/ 5/ 1 ms	
Removable single relay	HY 1N1L - 24 V Matsushita, alternative G 5 V - 1 - 24 V Omron (Art.-No. 616019 as accessories)	
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Temperature range	- 20...+ 60 °C	
Dimensions H x W x D	86 x 157 x 69 mm	86 x 90 x 75 mm
Notes	Opto-coupler and other voltages on request.	

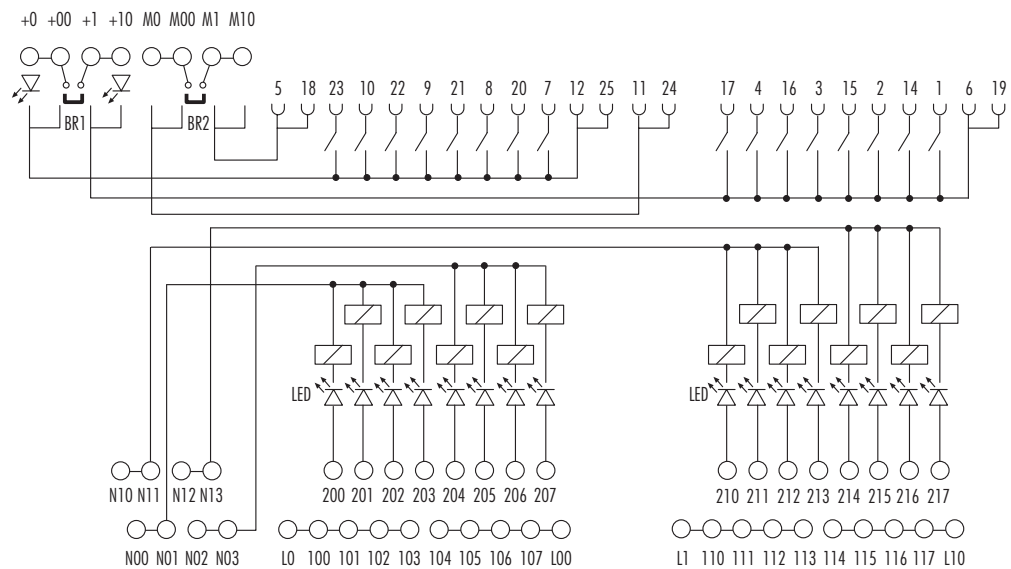
## Active interface module

### Input relay

#### MISR-16DI



#### Circuit diagram



#### Ordering data

	Art.-No.	Art.-No.
MISR - 16DI	* 596048	
MISR - 16DI		596079

#### Technical data

Input voltage (field side)	24 V DC $\pm$ 10 %	60 V DC $\pm$ 10 %
Connection current each bit	max. 10 mA	
Status indicator	yellow LED	
Switched voltage (PLC input)	24 V DC	
Switched current	max. 1 A	
Min.load current	1 mA	
Connector	25-pole SUB-D female to DIN 41652	
Contact material	Ag + Au plated	
Switch on, drop off and bounce time	5/ 5/ 1 ms	
Removable single relay	HY 1NIL - 24 V Matsushita, alternative G 5 V - 1 - 24 V Omron (Art.-No. 616019 as accessories)	
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Temperature range	- 20...+ 60 °C	
Dimensions H x W x D	86 x 157 x 69 mm	

#### Notes

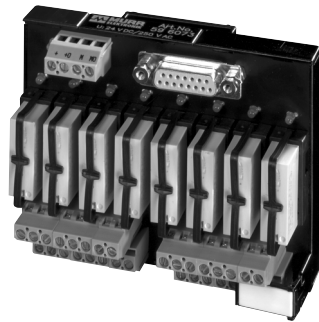
\* Safe separation to DIN VDE 0106 part 101. Opto-coupler and other voltages on request.

## Active interface module

### Output relay

#### MISR-8DO

with safe separation

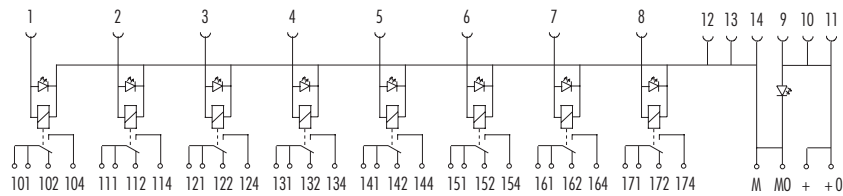


#### MISSNR-8DO

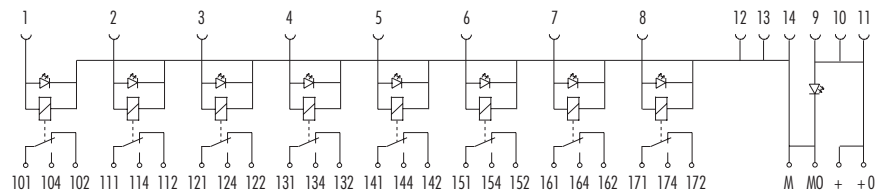


### Circuit diagram

Art.-No. 596073



Art.-No. 596133



Ordering data	Art.-No.	Art.-No.
MISR - 8DO	* 596073	
MISSNR - 8DO		596133
Technical data		
Input voltage (PLC output)	24 V DC $\pm$ 10 %	
Connection current each bit	max. 30 mA	approx. 11 mA
Status indicator	red LED	green LED
Switched voltage (field side)	250 V AC/150 V DC	250 V AC/DC
Switched current	max. 5 A	max. 6 A
Min. load current	100 mA	10 mA
Connector	15-pole SUB-D female to DIN 41652	
Contact/contact material	C/O contacts/AgNi hv	C/O contacts/AgSn O <sub>2</sub>
Switch on, drop off and bounce time	10/ 10/ 2 ms	10/ 15/ 1.5 ms
Mechanical relay (replacable)	RYS 01 024 Schrack, alternative M15FBH 0018 24 V DC FEME	
Semiconductor (replacable)	—	
Fixing	screw fixing UNC 4 - 40	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions H x W x D	86 x 112.5 x 75 mm	86 x 67.5 x 75 mm
Temperature range	- 20...+ 60 °C	
Notes	Opto-coupler and other voltages on request. * Safe separation to DIN VDE 0106 part 101. Root doubled	

## Active interface module

### Output relay

#### MISR-16DO

#### MISRS-16DO

#### MISR-16DO

with safe separation

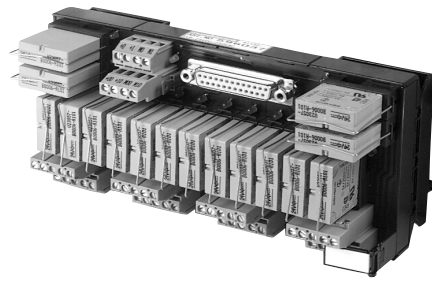


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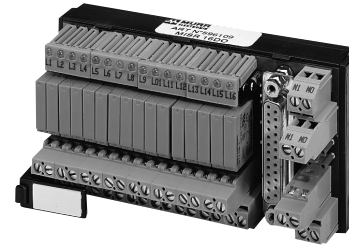
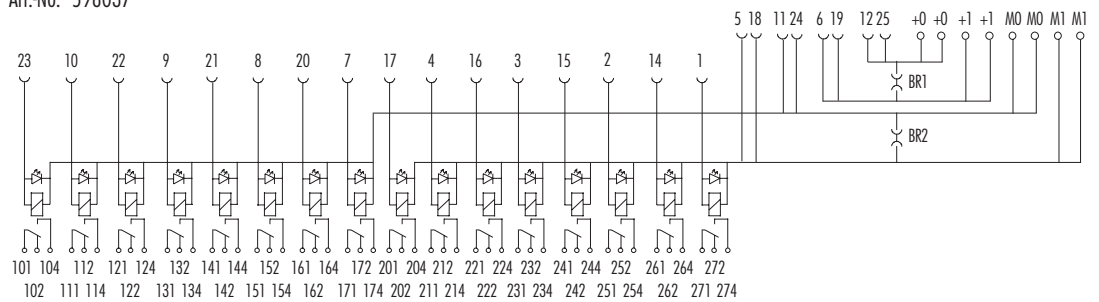


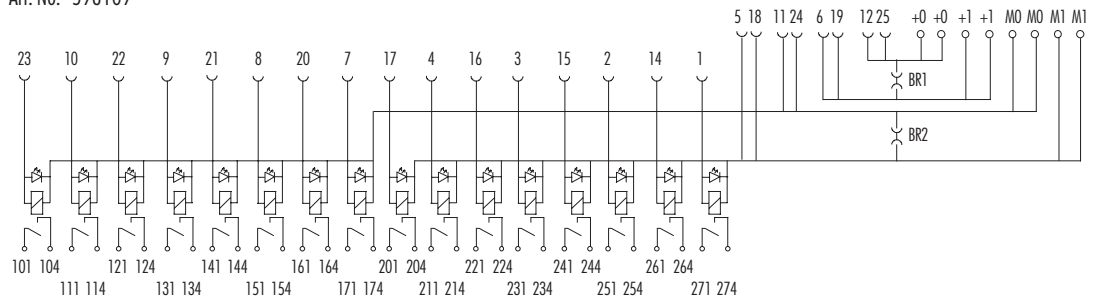
image: 596109

### Circuit diagram

Art.-No. 596037



Art.-No. 596109



### Ordering data

	Art.-No.	Art.-No.	Art.-No.
MISR - 16DO	<b>596037</b>		
MISRS- 16DO		<b>596109</b>	
MISR - 16DO			<b>* 596058</b>

### Technical data

Input voltage (PLC output)	24 V DC $\pm$ 10 %		
Connection current each bit	max. 30 mA		
Status indicator	red LED		
Switched voltage (field side)	250 V AC/300 V DC	250 V AC/150 V DC	
Switched current	max. 5 A	3 A	max. 5 A
Min. load current	100 mA	1 mA	100 mA
Connector	25-pole SUB-D female to DIN 41652		
Contact/contact material	C/O contacts/Ag hv	N/O contacts/Ag hv	C/O contacts/AgNi hv
Switch on, drop off and bounce time	10/ 10/ 2 ms		
Removable single relay	V 23 057-B0006-A201 Tyco (Art.-No. 61410 as accessories)	NYP-24W-K Takamisawa -	RYS 01 024 Schrack, alternative M15FBH 0018 24 V DC FEME
Fixing	screw fixing UNC 4 - 40		
Mounting method	DIN-rail mounting to EN 60715		
Dimensions H x W x D	86 x 180 x 75 mm	63 x 115 x 48 mm	86 x 225 x 75 mm
Temperature range	- 20...+ 60 °C		

### Notes

Opto-coupler and other voltages on request.  
\* Safe separation to DIN VDE 0106 part 101. Root doubled