

Remote I/O system in protection class IP67

Flexible sensor/actuator coupling to control systems in IP67 area in industrial environment

In both machine and plant construction, sensors and actuators from the entire machine have to be connected to the control unit. Depending on the machine, the size and also the count of the signals may be very large so that fieldbuses and IO systems can be used to collect the signals locally.

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The u-remote IP67 product family solves this problem by means of IP67 protected encapsulation at the very point where the sensors and actuators are located. In the variants with a subbus system, this is done very flexibly and in a wide range of applications.

Direct incorporation in the PLC programming environment, rapid definition of causes in the event of faults and a very narrow and lightweight design are the characteristics which make this system unique on the market.

Improved Connectivity Technology

With the I-coded M12 or PushPull Power connectors the ampacity of the connectors has been increased to 16 A.

For a control of significantly more actuators and therefore more decentral remote I/Os are possible. Take advantage of the opportunities for more flexible planning in your system!



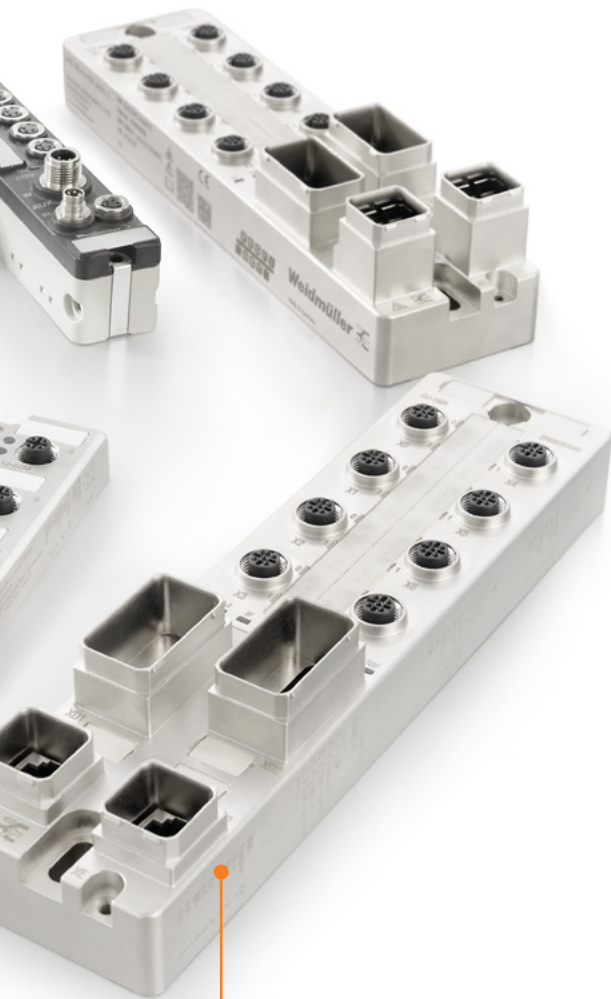
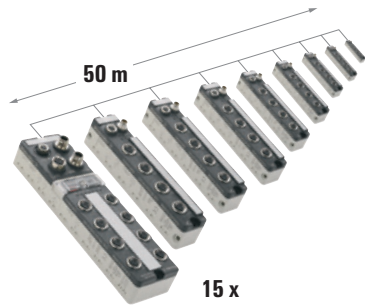
Efficient engineering

Direct incorporation and configuration in the standard PLC engineering systems with webserver.



50 % reduced costs through flexible sub-bus concept

Sub-bus length of up to 50 m with up to 15 slaves per sub-bus enables an extremely flexible setup.



Remote I/O system as complete system on the panel

An extremely wide range of sensor and actuator cables, fieldbus cables and customisable plug-in connectors round off the range.



Freedom of choice

Support for all common field bus systems.



Advanced diagnostic capabilities

A channel wise diagnosis based on two-colored LEDs will quickly and clearly shows the state of the individual channels on site!



PROFINET

Remote I/O for digital signal conditioning



UR67-PN-HP-8IOL-12-30M



UR67-PN-HP-8IOL-12-60M



Technical data

Connections	
Fieldbus (BUS-IN)	
Fieldbus (BUS-OUT)	
Supply voltage (AUX-IN)	
Supply voltage (AUX-OUT)	
I/O connections	
Power supply	
Operating voltage	
Power consumption of module electronics	
Module supply	
Digital inputs	
IO link standard	
Galvanic isolation	
Input current, low	
Input current, high	
Status indicator	
Diagnostic display	
Digital outputs	
max. current-carrying capacity per output signal	
Output voltage, low	
Output voltage, high	
Status indicator	
Diagnostic display	
Fieldbus	
Bus system	
Transmission rate	
Addressing	
General data	
Length / Width / Height	
Earth	
Protection degree	
Operating temperature	
Housing main material / UL 94 flammability rating	
Note	

1x M12 female 4-pole, D-coded	
1x M12 female 4-pole, D-coded	
1x M12 plug 5-pole, L-coded	
1x M12 socket 5-pole, L-coded	
8 x M12 socket 5-pole, A-coded	
Power supply	
24 V (18 V DC ... 30 V DC)	
160 mA typical	
16 A	
Digital inputs	
IO-Link v.1.1, IEC 61131-9	
2000 V DC	
Type 1 in acc. with IEC 61131-2	
Type 1 in acc. with IEC 61131-2	
Per channel, via LED, yellow	
Per channel, via LED, red	
Digital outputs	
0.5 A, 2 A	
- 1 V	
max. 2 V	
Per channel, via LED, yellow	
Per channel, via LED, red	
Fieldbus	
PROFINET V2.3	
10/100 MBit/s	
DCP	
General data	
225 mm / 30 mm / 30 mm	
480 g	
IP67	
-20...70 °C	
Zinc diecast / UL 94	
Download of GSDML-files on www.weidmueller.com	

1x M12 female 4-pole, D-coded	
1x M12 female 4-pole, D-coded	
1x M12 plug 5-pole, L-coded	
1x M12 socket 5-pole, L-coded	
8 x M12 socket 5-pole, A-coded	
Power supply	
24 V (18 V DC ... 30 V DC)	
160 mA typical	
16 A	
Digital inputs	
IO-Link v.1.1, IEC 61131-9	
2000 V DC	
Type 1 in acc. with IEC 61131-2	
Type 1 in acc. with IEC 61131-2	
Per channel, via LED, yellow	
Per channel, via LED, red	
Digital outputs	
0.5 A, 2 A	
- 1 V	
max. 2 V	
Per channel, via LED, yellow	
Per channel, via LED, red	
Fieldbus	
PROFINET V2.3	
10/100 MBit/s	
DCP	
General data	
200 mm / 59.6 mm / 17.6 mm	
500 g	
IP67	
-20...70 °C	
Zinc diecast / UL 94	
Download of GSDML-files on www.weidmueller.com	

Ordering data

Module variants	
	IO link, 4 x type A, 4 x type B
Note	

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-30M	1	2426250000

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-60M	1	2426260000

Accessories

M12 sensor cable	
M12 sensor cable	
Bus cable	
Bus cable	
Markers	
Plug	
Metal plug Ethernet, Male M12, D-coded, straight	
Note	

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
MF 5/10 MC NE WS	250	1954050000
SAISM-4/8S-M12-4P D-COD		
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000
SAISM-4/8S-M12-4P D-COD		
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

Multiprotocol
Remote I/O for digital signal conditioning



UR67-MP-HP-16DI-12-M60



UR67-MP-HP-16DO-12-M60



Technical data

Connections
Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections
Power supply
Operating voltage
Power consumption of module electronics
Module supply
Digital inputs
Input current, low
Input current, high
Status indicator
Diagnostic display
Digital outputs
max. current-carrying capacity per output signal
Output voltage, low
Output voltage, high
Status indicator
Diagnostic display
Fieldbus
Bus system
Transmission rate
Addressing
General data
Length / Width / Height
Earth
Protection degree
Operating temperature
Housing main material / UL 94 flammability rating
Note

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
100 mA typical
16 A
Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP
200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmueller.com

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
100 mA typical
16 A
2 A
min. (UL-1)
max. 2 V
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP
200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmueller.com

Ordering data

Module variants	16 digital inputs
	16 digital out
Note	

Type	Qty.	Order No.
UR67-MP-HP-16DI-12-60M	1	2426270000

Type	Qty.	Order No.
UR67-MP-HP-16DO-12-60M	1	2426280000

Accessories

M12 sensor cable
M12 sensor cable
Bus cable
Bus cable
Markers
Plug
Metal plug Ethernet, Male M12, D-coded, straight
Note

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

u-remote IP67 - Multiprotocol

Multiprotocol

Remote I/O for digital signal conditioning



Technical data

Connections

Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections

Power supply

Operating voltage
Power consumption of module electronics
Module supply

Digital inputs

Input current, low
Input current, high
Status indicator
Diagnostic display

Digital outputs

max. current-carrying capacity per output signal
Output voltage, low
Output voltage, high
Status indicator
Diagnostic display

Fieldbus

Bus system
Transmission rate
Addressing

General data

Length / Width / Height
Earth
Protection degree
Operating temperature
Housing main material / UL 94 flammability rating

Note

Ordering data

Module variants

8 digital inputs / 8 digital outputs
16 universal channels

Note

Accessories

M12 sensor cable	
M12 sensor cable	
Bus cable	
Bus cable	
Markers	

Plug

Metal plug Ethernet, Male M12, D-coded, straight

Note

UR67-MP-HP-8DIDO-12-60M



1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)
100 mA typical
16 A

Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Per channel, via LED, yellow
Per channel, via LED, red

2 A
min. (UL -1)
max. 2 V
Per channel, via LED, yellow
Per channel, via LED, red

PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP

200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmueller.com

Type	Qty.	Order No.
UR67-MP-HP-8DIDO-12-60M	1	2426290000

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Type	Qty.	Order No.
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

UR67-MP-HP-16DIO-12-60M



1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)
100 mA typical
16 A

Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Per channel, via LED, yellow
Per channel, via LED, red

2 A
min. (UL -1)
max. 2 V
Per channel, via LED, yellow
Per channel, via LED, red

PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP

200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmueller.com

Type	Qty.	Order No.
UR67-MP-HP-16DIO-12-60M	1	2512840000

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Type	Qty.	Order No.
SAISM-4/8S-M12-4P D-COD	1	1892120000

Further cables can be found at the end of this chapter.

Multiprotocol
Remote I/O for digital signal conditioning



UR67-MP-78-16DI-12-60M



UR67-MP-78-16DO-12-60M



Technical data

Connections
Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections
Power supply
Operating voltage
Power consumption of module electronics
Module supply
Digital inputs
Input current, low
Input current, high
Status indicator
Diagnostic display
Digital outputs
max. current-carrying capacity per output signal
Output voltage, low
Output voltage, high
Max. total current outputs
Status indicator
Diagnostic display
Fieldbus
Bus system
Transmission rate
Addressing
General data
Length / Width / Height
Earth
Protection degree
Operating temperature
Housing main material / UL 94 flammability rating
Note

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x 7/8" plug 5-pole
1x 7/8" socket 5-pole
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
100 mA typical
9 A (12 A see manual)
Type 1 in acc. with IEC 61131-2
Type 1 in acc. with IEC 61131-2
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP
206 mm / 59.6 mm / 17.3 mm
520 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmuller.com

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x 7/8" plug 5-pole
1x 7/8" socket 5-pole
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
100 mA typical
9 A (12 A see manual)
2 A
min. (UL-1)
max. 2 V
9 A (12 A see manual)
Per channel, via LED, yellow
Per channel, via LED, red
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
10/100 MBit/s
Via rotary coding switch, DCP
206 mm / 59.6 mm / 17.3 mm
520 g
IP67
-20...70 °C
Zinc diecast / UL 94
Download the configuration files from www.weidmuller.com

Ordering data

Module variants
16 digital inputs
16 digital out
Note

Type	Qty.	Order No.
UR67-MP-78-16DI-12-60M	1	2426300000

Type	Qty.	Order No.
UR67-MP-78-16DO-12-60M	1	2426310000

Accessories

M12 sensor cable
M12 sensor cable
Bus cable
Markers
Note

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Further cables can be found at the end of this chapter.

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Further cables can be found at the end of this chapter.

Multiprotocol

Remote I/O for digital signal conditioning



UR67-MP-78-16DIO-12-60M



UR67-MP-78-8DIDO-12-60M



Technical data

Connections	
Fieldbus (BUS-IN)	
Fieldbus (BUS-OUT)	
Supply voltage (AUX-IN)	
Supply voltage (AUX-OUT)	
I/O connections	
Power supply	
Operating voltage	
Power consumption of module electronics	
Module supply	
Digital inputs	
Input current, low	
Input current, high	
Status indicator	
Diagnostic display	
Digital outputs	
max. current-carrying capacity per output signal	
Output voltage, low	
Output voltage, high	
Max. total current outputs	
Status indicator	
Diagnostic display	
Fieldbus	
Bus system	
Transmission rate	
Addressing	
General data	
Length / Width / Height	
Earth	
Protection degree	
Operating temperature	
Housing main material / UL 94 flammability rating	
Note	

1x M12 female 4-pole, D-coded	
1x M12 female 4-pole, D-coded	
1x 7/8" plug 5-pole	
1x 7/8" socket 5-pole	
8 x M12 socket 5-pole, A-coded	
Power supply	
24 V (18 V DC ... 30 V DC)	
100 mA typical	
9 A (12 A see manual)	
Digital inputs	
Type 1 in acc. with IEC 61131-2	
Type 1 in acc. with IEC 61131-2	
Per channel, via LED, yellow	
Per channel, via LED, red	
Digital outputs	
2 A	
min. (UL -1)	
max. 2 V	
9 A (12 A see manual)	
Per channel, via LED, yellow	
Per channel, via LED, red	
Fieldbus	
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	
10/100 MBit/s	
Via rotary coding switch, DCP	
General data	
206 mm / 59.6 mm / 17.3 mm	
500 g	
IP67	
-20...70 °C	
Zinc diecast / UL 94	
Download the configuration files from www.weidmuller.com	

1x M12 female 4-pole, D-coded	
1x M12 female 4-pole, D-coded	
1x 7/8" plug 5-pole	
1x 7/8" socket 5-pole	
8 x M12 socket 5-pole, A-coded	
Power supply	
24 V (18 V DC ... 30 V DC)	
100 mA typical	
9 A (12 A see manual)	
Digital inputs	
Type 1 in acc. with IEC 61131-2	
Type 1 in acc. with IEC 61131-2	
Per channel, via LED, yellow	
Per channel, via LED, red	
Digital outputs	
2 A	
min. (UL -1)	
max. 2 V	
9 A (12 A see manual)	
Per channel, via LED, yellow	
Per channel, via LED, red	
Fieldbus	
PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	
10/100 MBit/s	
Via rotary coding switch, DCP	
General data	
206 mm / 59.6 mm / 17.3 mm	
520 g	
IP67	
-20...70 °C	
Zinc diecast / UL 94	
Download the configuration files from www.weidmuller.com	

Ordering data

Module variants	
	16 universal channels 8 digital inputs / 8 digital outputs
Note	

Type	Qty.	Order No.
UR67-MP-78-16DIO-12-60M	1	2512830000

Type	Qty.	Order No.
UR67-MP-78-8DIDO-12-60M	1	2426320000

Accessories

M12 sensor cable	
M12 sensor cable	
Bus cable	
Markers	
Note	

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Further cables can be found at the end of this chapter.

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	9457610150
SAIL-M12W-5-1.5U	1	9457670150
IE-C5DD4UG0015MCSMCS-E	1	1025950015
ESG-M 8/20 MC NE WS	200	1027290000

Further cables can be found at the end of this chapter.

u-remote IP67 - Push/Pull

Push/Pull

Remote I/O for digital signal conditioning



UR67-PN-V14-POF-8DIDO-12



UR67-PN-V14-POF-16DI-12



Technical data

Module variants

Module variants

Connections

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Power supply

Operating voltage

Max. total current module

Module supply

Digital inputs

Number

Input type

Input voltage, high

Input voltage, low

Sensor connection

Digital outputs

Number

Max. total current outputs

Switching frequency, resistive load

Switching frequency, inductive load

Switching frequency, lamp load

Short-circuit proof

Fieldbus

Bus system

Addressing

Transmission rate

General data

Length / Width / Height

Weight

Protection degree

Operating temperature

Housing main material / UL 94 flammability rating

Note

8 digital inputs, 8 digital outputs

V14 PushPull SC-RJ POF

V14 PushPull SC-RJ POF

PushPull-Power

PushPull-Power

8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)

150 mA

16 A

8

P-switching, Type 2 in acc. with IEC 61131-2

> 11 V

< 5 V

2-wire, 3-wire + FE, M12, 5 pole, A coded

8

2 A per channel, 16 A per module

500 Hz

0.2 Hz without free-wheeling diode, 500 Hz with suitable free-wheeling diode

10 Hz

Yes

PROFINET V2.3

DCP

100 MBit/s

225 mm / 60 mm / 51 mm

1000 g

IP67

-20...55 °C

Zinc diecast / UL 94

16 digital inputs

V14 PushPull SC-RJ POF

V14 PushPull SC-RJ POF

PushPull-Power

PushPull-Power

8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)

150 mA

16 A

16

P-switching, Type 2 in acc. with IEC 61131-2

> 11 V

< 5 V

2-wire, 3-wire + FE, M12, 5 pole, A coded

PROFINET V2.3

DCP

100 MBit/s

225 mm / 60 mm / 51 mm

995 g

IP67

-20...55 °C

Zinc diecast / UL 94

Ordering data

Module variants

8 digital inputs / 8 digital outputs

16 digital out

Note

Type	Qty.	Order No.
UR67-PN-V14-POF-8DIDO-12	1	2599690000

Type	Qty.	Order No.
UR67-PN-V14-POF-16DI-12	1	2599700000