


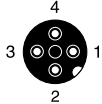

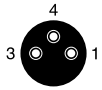

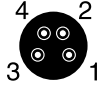

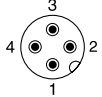
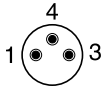
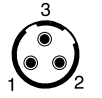




# CONNECTIVITY

## HIGHLIGHTS:

- ✓ Comprehensive cable and connector program
- ✓ IP 69K and Ecolab-tested cables for the food and beverage industry
- ✓ UL-approved cables and connectors
- ✓ Cables with straight or right-angle sockets
- ✓ Distribution boxes
- ✓ Field-attachable connectors
- ✓ T-connectors
- ✓ User-friendly standard portfolio

# CABLES / CONNECTORS DESCRIPTION

SOCKET	TYPE	PIN ASSIGNMENT	TYPE
	M8 straight socket		M12 4-pole socket
	M12 straight socket		M8 3-pole socket
	M8 right angle socket		M8 4-pole socket
	M12 right angle socket		M12 4-pole plug
			M8 3-pole plug
			M12 3-pole dual key plug (S13)
PLUG	TYPE		
	M8 straight plug		
	M12 straight plug		



## CONNECTING CABLES PVC WITH OPEN ENDED WIRES

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S08-3FVG-020	M8	3-pole	straight	PVC	2 m
S08-3FVG-050	M8	3-pole	straight	PVC	5 m
S08-3FVG-100	M8	3-pole	straight	PVC	10 m
S08-4FVG-020	M8	4-pole	straight	PVC	2 m
S08-4FVG-050	M8	4-pole	straight	PVC	5 m
S08-4FVG-100	M8	4-pole	straight	PVC	10 m
S08-3FVW-020	M8	3-pole	right angle	PVC	2 m
S08-3FVW-050	M8	3-pole	right angle	PVC	5 m
S08-3FVW-100	M8	3-pole	right angle	PVC	10 m
S08-4FVW-020	M8	4-pole	right angle	PVC	2 m
S08-4FVW-050	M8	4-pole	right angle	PVC	5 m
S08-4FVW-100	M8	4-pole	right angle	PVC	10 m
S12-3FVG-020	M12	3-pole	straight	PVC	2 m
S12-3FVG-050	M12	3-pole	straight	PVC	5 m
S12-3FVG-100	M12	3-pole	straight	PVC	10 m
S12-4FVG-020	M12	4-pole	straight	PVC	2 m
S12-4FVG-050	M12	4-pole	straight	PVC	5 m
S12-4FVG-100	M12	4-pole	straight	PVC	10 m
S12-5FVG-020	M12	5-pole	straight	PVC	2 m
S12-5FVG-100	M12	5-pole	straight	PVC	10 m
S12-3FVW-020	M12	3-pole	right angle	PVC	2 m
S12-3FVW-050	M12	3-pole	right angle	PVC	5 m
S12-3FVW-100	M12	3-pole	right angle	PVC	10 m
S12-4FVW-020	M12	4-pole	right angle	PVC	2 m
S12-4FVW-050	M12	4-pole	right angle	PVC	5 m
S12-4FVW-100	M12	4-pole	right angle	PVC	10 m

Inductive

Photoelectric

Ultrasonic

Capacitive

Safety

RFID

Connectivity

Accessories

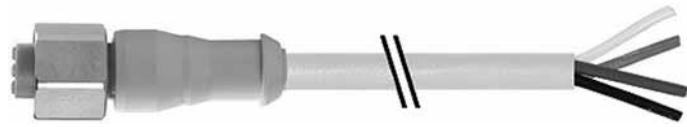
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## CONNECTING CABLES PUR WITH OPEN ENDED WIRES

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S08-3FUG-020	M8	3-pole	straight	PUR	2 m
S08-3FUG-050	M8	3-pole	straight	PUR	5 m
S08-3FUG-100	M8	3-pole	straight	PUR	10 m
S08-4FUG-020	M8	4-pole	straight	PUR	2 m
S08-4FUG-050	M8	4-pole	straight	PUR	5 m
S08-4FUG-100	M8	4-pole	straight	PUR	10 m
S08-3FUW-020	M8	3-pole	right angle	PUR	2 m
S08-3FUW-050	M8	3-pole	right angle	PUR	5 m
S08-3FUW-100	M8	3-pole	right angle	PUR	10 m
S08-4FUW-020	M8	4-pole	right angle	PUR	2 m
S08-4FUW-050	M8	4-pole	right angle	PUR	5 m
S08-4FUW-100	M8	4-pole	right angle	PUR	10 m
S12-3FUG-020	M12	3-pole	straight	PUR	2 m
S12-3FUG-050	M12	3-pole	straight	PUR	5 m
S12-3FUG-100	M12	3-pole	straight	PUR	10 m
S12-4FUG-020	M12	4-pole	straight	PUR	2 m
S12-4FUG-050	M12	4-pole	straight	PUR	5 m
S12-4FUG-100	M12	4-pole	straight	PUR	10 m
S12-3FUW-020	M12	3-pole	right angle	PUR	2 m
S12-3FUW-050	M12	3-pole	right angle	PUR	5 m
S12-3FUW-100	M12	3-pole	right angle	PUR	10 m
S12-4FUW-020	M12	4-pole	right angle	PUR	2 m
S12-4FUW-050	M12	4-pole	right angle	PUR	5 m
S12-4FUW-100	M12	4-pole	right angle	PUR	10 m



example

## CONNECTING CABLES PVC/TPE WITH OPEN ENDED WIRES FOR FOOD APPLICATIONS IP 69K

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S08-3FVG-020-NNLN	M8	3	straight	PVC	2 m
S08-3FVW-020-NNLN	M8	3	right angle	PVC	2 m
S12-4FVG-020-NNLN	M12	4	straight	PVC	2 m
S12-4FVG-050-NNLN	M12	4	straight	PVC	5 m
S12-4FVG-100-NNLN	M12	4	straight	PVC	10 m
S12-4FVW-020-NNLN	M12	4	right angle	PVC	2 m
S12-4FVW-100-NNLN	M12	4	right angle	PVC	10 m
S12-4FAG-050-NNLN	M12	4	straight	TPE-S	5 m
S12-4FAG-100-NNLN	M12	4	straight	TPE-S	10 m
S12-4FAG-150-NNLN	M12	4	straight	TPE-S	15 m



S13

example

## CONNECTING CABLES PUR WITH OPEN ENDED WIRES FOR AC SENSORS (230 V MAX)

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S13-3FUG-020	M12	3	straight	PUR	2 m
S13-3FUW-020	M12	3	right angle	PUR	2 m
S13-3FUG-050	M12	3	straight	PUR	5 m
S13-3FUW-050	M12	3	right angle	PUR	5 m



example

## CONNECTING CABLES PVC

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S08-3FVG-006-08MG	M8	3	straight	PVC	0.6 m	M8	straight
S08-3FVG-020-08MG	M8	3	straight	PVC	2 m	M8	straight
S08-3FVG-050-08MG	M8	3	straight	PVC	5 m	M8	straight
S12-4FVG-006-12MG	M12	4	straight	PVC	0.6 m	M12	straight
S12-4FVG-020-12MG	M12	4	straight	PVC	2 m	M12	straight
S12-4FVG-050-12MG	M12	4	straight	PVC	5 m	M12	straight



example

## CONNECTING CABLES PUR

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S08-3FUG-006-08MG	M8	3	straight	PUR	0.6 m	M8	straight
S08-3FUG-020-08MG	M8	3	straight	PUR	2 m	M8	straight
S08-3FUG-050-08MG	M8	3	straight	PUR	5 m	M8	straight
S12-4FUG-006-12MG	M12	4	straight	PUR	0.6 m	M12	straight
S12-4FUG-020-12MG	M12	4	straight	PUR	2 m	M12	straight
S12-4FUG-050-12MG	M12	4	straight	PUR	5 m	M12	straight



example

## CONNECTING CABLES PVC FOR FOOD APPLICATIONS

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S12-4FVG-020-NNLN-12MG	M12	4	straight	PVC	2 m	M12	straight
S12-4FVG-050-NNLN-12MG	M12	4	straight	PVC	5 m	M12	straight
S12-4FAG-100-NNLN-12MG	M12	4	straight	TPE-S	10 m	M12	straight
S12-4FVG-100-NNLN-12MG	M12	4	straight	PVC	10 m	M12	straight



example

## CONNECTING CABLES M8/M12

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S08-3FVG-020-12MG	M8	3	straight	PVC	2 m	M12	straight
S08-4FVG-020-12MG	M8	4	straight	PVC	2 m	M12	straight
S08-3FUG-020-12MG	M8	3	straight	PUR	2 m	M12	straight
S08-4FUG-006-12MG	M8	4	straight	PUR	0.6 m	M12	straight

Inductive

Photoelectric

Ultrasonic

Capacitive

Safety

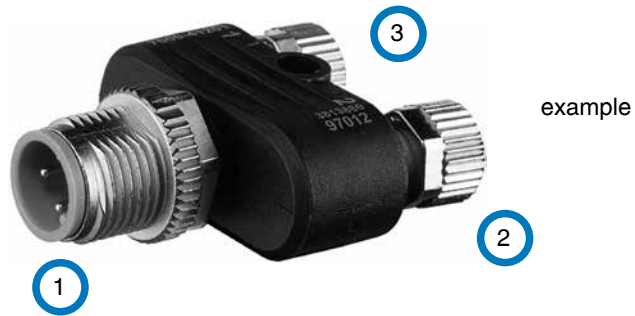
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## T-CONNECTOR

PART REFERENCE	CONNECTION 1		CABLE		CONNECTION 2	CONNECTION 3
	Size	Pins	Material	Length	Size	Size
V12-4TPD-003-UN0	M12 plug	4	PVC	0.3	M12 socket	M12 plug



## DISTRIBUTION BOXES

PART REFERENCE	SOCKET			CONNECTION
	Size	Pins	Number connections	Length
V12-54PD-050-UYN	M12	5	4 Plug Distribution box	5 m
V12-54PD-100-UYN	M12	5	4 Plug Distribution box	10 m
V12-58PD-050-UYN	M12	5	8 Plug Distribution box	5 m
V12-58PD-100-UYN	M12	5	8 Plug Distribution box	10 m
V12-58MD-100-UYN	M12	5	8 Plug Metal Distribution box	10 m





example

## FIELD ATTACHABLE CONNECTORS

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Outer Ø	Wire Ø
S08-3FNG-000-NNT1	M8	3	straight	3.0 - 5.0	0.14 - 0.38
S08-4FNG-000-NNT1	M8	4	straight	3.0 - 5.0	0.14 - 0.38
S08-3MNG-000-NNT1	M8	3	straight	3.0 - 5.0	0.14 - 0.38
S08-4MNG-000-NNT1	M8	4	straight	3.0 - 5.0	0.14 - 0.38
S08-3MNG-000-NNT2	M8	3	straight	4.0 - 8.0	0.14 - 0.50
S12-4FNG-000-NNT1	M12	4	straight	3.0 - 5.0	0.14 - 0.38
S12-4FNG-000-NNT2	M12	4	straight	4.0 - 8.0	0.14 - 0.50
S12-5FNG-000-NNT2	M12	5	straight	4.0 - 8.0	0.14 - 0.50
S12-4FNW-000-NNT1	M12	4	right angle	3.5 - 5.0	0.08 - 0.34
S12-4FNW-000-NNT2	M12	4	right angle	4.0 - 8.0	0.14 - 0.50
S12-5FNW-000-NNT2	M12	5	right angle	4.0 - 8.0	0.14 - 0.50
S12-4MNG-000-NNT1	M12	4	straight	3.0 - 5.0	0.14 - 0.38
S12-4MNG-000-NNT2	M12	4	straight	4.0 - 8.0	0.14 - 0.50
S12-5MNG-000-NNT2	M12	5	straight	4.0 - 8.0	0.14 - 0.50
S12-4MNW-000-NNT2	M12	4	right angle	4.0 - 8.0	0.14 - 0.50
S12-5MNW-000-NNT2	M12	5	right angle	4.0 - 8.0	0.14 - 0.50

## CABLES WITH INTEGRATED LED

PART REFERENCE	SOCKET			CABLE		
	Size	Pins	Config.	Material	Length	LED
S12-3FUW-050-YNNN	M12	3	right angle	PUR	5 m	PNP
S12-3FVW-050-YNNN	M12	3	right angle	PVC	5 m	PNP
S08-3FUW-020-YNNN	M8	3	right angle	PUR	2 m	PNP

Inductive

Photoelectric

Ultrasonic

Capacitive

Safety

RFID

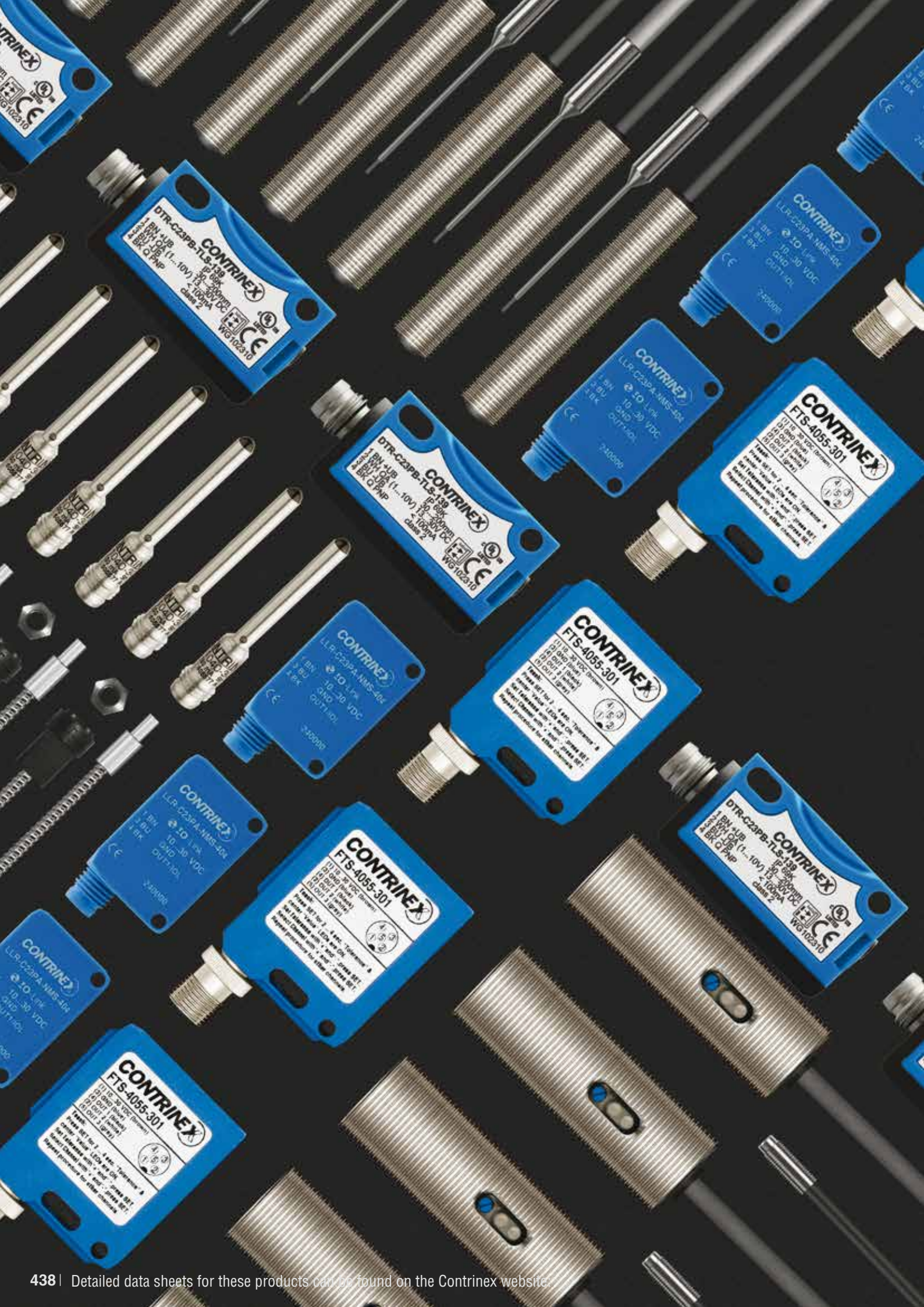
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# ACCESSORIES

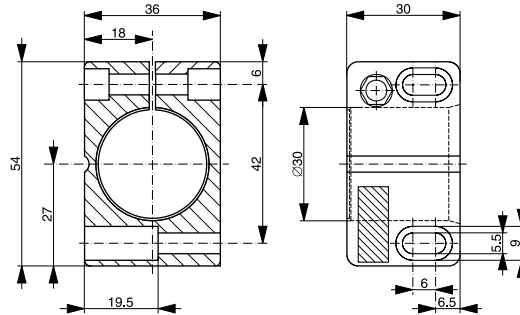
## HIGHLIGHTS:

- ✓ Sensor testers for fast field checks
- ✓ Sensor mounting clamps
- ✓ Bases for mounting clamps
- ✓ Snap-on power supply units
- ✓ Amplifiers for 3-wire and NAMUR sensors





Ø30



### TECHNICAL DATA

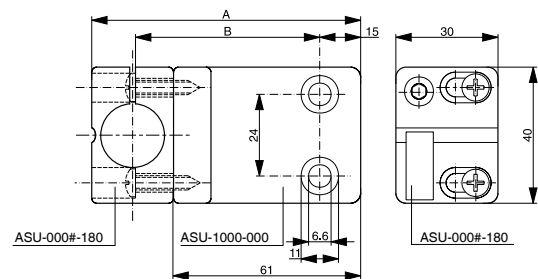
Part reference	Type				
ASU-0001-300	without limit stop	Ø 30 mm			
ASU-0002-300	with limit stop	Ø 30 mm			

**Material:** PA 6 GK black

**Screw:** DIN 912, M5 x 25 zinc-plated

**Nut:** DIN 934, M5 zinc-plated

## BASES FOR MOUNTING CLAMPS Ø12, Ø18



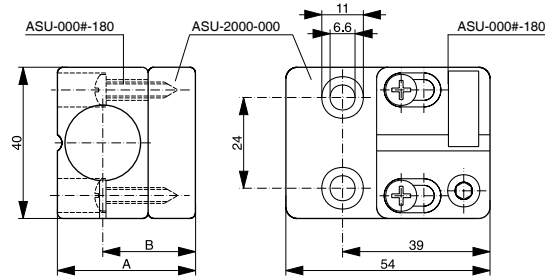
### TECHNICAL DATA

Part reference	Type	A with Ø 12 mm / Ø 18 mm	B with Ø 12 mm / Ø 18 mm
ASU-1000-000	horizontal	79 mm / 85 mm	55 mm / 58 mm

**Material:** PA 6 black

**Screws:** DIN 7981, Ø 4.2 zinc-plated

# ACCESSORIES



## TECHNICAL DATA

Part reference	Type	A with $\varnothing$ 12 mm / $\varnothing$ 18 mm	B with $\varnothing$ 12 mm / $\varnothing$ 18 mm
ASU-2000-000	vertical	30.5 mm / 36.5 mm	21.5 mm / 24.5 mm

**Material:** PA 6 black

**Screws:** DIN 7981,  $\varnothing$  4.2 zinc-plated

## SENSOR TESTER

### ATE-0000-010

For fast field checks of various sensor types (inductive, capacitive, photoelectric and ultrasonic) 10 ... 30 V.

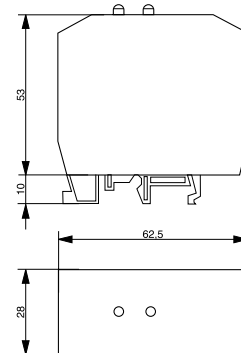
- Suitable for PNP and NPN devices, NO, NC or push-pull versions
- LED and acoustic indicators
- Built-in steel target (non-standardized) for checking inductive sensors
- Automatic switch off after approx. 120 sec. of non-use
- Up to 100 mA sensor current
- Rechargeable LiPo battery 9V 600 mAh (included)
- Battery life longer than 2 hours at 50 mA current supply
- Micro-USB interface to recharge battery with universal mobile phone charger



## POWER SUPPLY UNIT, AMPLIFIERS

These devices are built into user-friendly clamping frames that can be snapped onto various standard rails, thanks to their universal foot.

Dimensions (all types):

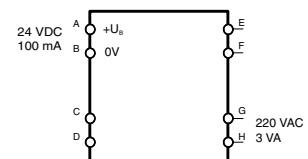


### POWER SUPPLY UNIT

#### TECHNICAL DATA

DW-AZ-100-24	
Supply voltage	220 VAC
Power drain	3 VA
Output voltage	24 VDC
Output current	100 mA max.

Wiring diagram:



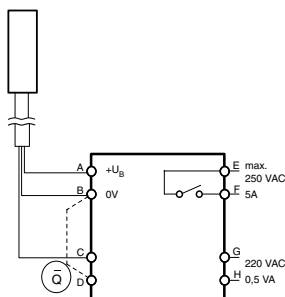
## AMPLIFIERS FOR 3-WIRE SENSORS

### DW-AZ-100-A3

These devices are suitable for NPN and PNP N.O. sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between B and D inverts this function.

TECHNICAL DATA	
Supply voltage	220 VAC
Power drain	0.5 VA
Output voltage	18.5 VDC
Output current	20 mA max.

Wiring diagram:

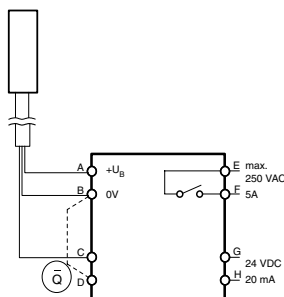


### DW-AZ-100-D3

These devices are suitable for NPN and PNP N.O. sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between B and D inverts this function.

TECHNICAL DATA	
Supply voltage	24 VDC
No-load supply current	20 mA max.
Output voltage	18.5 VDC
Output current	20 mA max.

Wiring diagram:



## AMPLIFIERS FOR NAMUR SENSORS

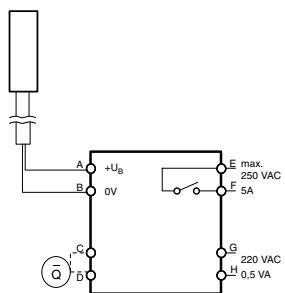
### DW-AZ-100-AN

These devices are suitable for NAMUR sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between C and D inverts this function.

Output current and impedance correspond to NAMUR standard (DIN 19234).

TECHNICAL DATA	
Supply voltage	220 VAC
Power drain	0.5 VA

Wiring diagram:



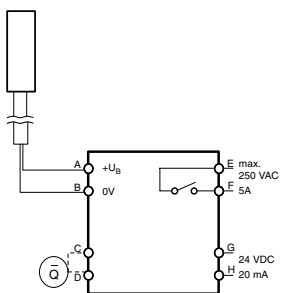
### DW-AZ-100-DN

These devices are suitable for NAMUR sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between C and D inverts this function.

Output current and impedance correspond to NAMUR standard (DIN 19234).

TECHNICAL DATA	
Supply voltage	24 VDC
No-load supply current	20 mA max.

Wiring diagram:









# CABLE DISTRIBUTION BOXES

## V12-58PD-050-UYN (-###)

**DISTRIBUTION BOX** **V**

### CONNECTIONS

Accessory	<b>00</b>
M8	<b>08</b>
M12	<b>12</b>

### POLE NUMBER OF CONNECTIONS

3-pole	<b>3</b>
4-pole	<b>4</b>
5-pole	<b>5</b>

### NUMBER OF CONNECTIONS

Hood for all types	<b>0</b>
2 connections	<b>T</b>
4 connections	<b>4</b>
6 connections	<b>6</b>
8 connections	<b>8</b>
10 connections	<b>1</b>

### MATERIAL

Plastic	<b>P</b>
Metal	<b>M</b>

### SPECIAL EXECUTIONS

### TECHNOLOGY

Standard (passive distribution box)	<b>N</b>
Wiring according diagram no.	<b>#</b>

### LED

Yes	<b>Y</b>
No	<b>N</b>

### CABLE MATERIAL

No cable	<b>N</b>
PVC	<b>V</b>
PUR	<b>U</b>

### CONNECTION

No cable	<b>000</b>
Cable 0.3 m	<b>003</b>
Cable 2 m	<b>020</b>
Cable 5 m	<b>050</b>
Cable 10 m	<b>100</b>
Connector M12	<b>012</b>
Connector M23	<b>023</b>

### TYPE

Distribution box with cable	<b>D</b>
Distribution box for straight connection	<b>G</b>
Distribution box for right-angle connection	<b>W</b>
Base element without hood	<b>B</b>
Hood with cable	<b>H</b>
Hood without cable	<b>E</b>
Base element + hood with cable	<b>Y</b>

# CABLE DISTRIBUTION BOXES

<i>Part reference</i>	<i>Chapter/page</i>
V12-4TPD-003-UNO	7/436
V12-54PD-050-UYN	7/436
V12-54PD-100-UYN	7/436
V12-58MD-100-UYN	7/436
V12-58PD-050-UYN	7/436
V12-58PD-100-UYN	7/436

Inductive

Photoelectric

Ultrasonic

Capacitive

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# CABLES / CONNECTORS

## S12-4FAG-020[-NNLN-12MG]-(XXX)

### CONNECTION CABLE

S

### CONNECTOR SIZE FEMALE

M8	08
M12	12
M23	23

### NUMBER OF POLES

3-pole	3
4-pole	4
5-pole	5
11-pole	B
19-pole	J

### CONNECTOR TYPE

Female (socket)	F
Male (plug)	M

### CABLE MATERIAL

No cable	N
PVC	V
PUR	U
TPE-S	A

### CABLE EXIT (FEMALE)

Straight	G
Right-angle	W

### CABLE LENGTH

No cable	000
0.3 m	003
0.6 m	006
1 m	010
1.5 m	015
2 m (standard)	020
5 m	050
10 m	100

3-pole, NO & NC	015
100 pieces	921

### CABLE EXIT (MALE)

Straight	G
Right-angle	W

### CONNECTOR TYPE

Male (plug)	M
Female (socket)	F

### CONNECTOR SIZE MALE

M8	08
M12	12
M23	23

### CONNECTION TYPE

Standard	N
Quick-lock	Q
Cable Ø 3.0 - 5.0 mm / wire 0.08 - 0.38 mm <sup>2</sup>	1
Cable Ø 4.0 - 8.0 mm / wire 0.14 - 0.50 mm <sup>2</sup>	2

### APPLICATION

Standard	N
Food	L
RFID	R
Field attachable	T
Safety	S

### EXECUTION

Standard or no cable	N
Shielded	W

### LED

Yes, PNP	Y
Yes, NPN	Z
No	N

# CABLES / CONNECTORS

<i>Part reference</i>	<i>Chapter/page</i>	<i>Part reference</i>	<i>Chapter/page</i>
S08-3FNG-000-NNT1	7/437	S12-4FNG-000-NNT2	7/437
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