



CONNECTIVITY SECTION



LARGEST SELECTION
OF IO-LINK SENSORS
IN THE INDUSTRY *

A
Swiss
Company

INTRODUCTION

CONTRINEX

Contrinex is a leading manufacturer of sensors for factory automation. The Swiss company, headquartered in Corminboeuf near Fribourg (CH), has a unique and innovative range of products whose features far surpass those of standard sensors.

Since its foundation in 1972 by Peter Heimlicher, Dipl Ing ETH, Contrinex has grown from a one-man operation to a multinational group with over 580 employees worldwide. More than 14 subsidiaries cover the core markets in Europe, Asia, North and South America.

At a glance

- Technology leading manufacturer of inductive and photoelectric sensors as well as safety and RFID systems
- World market leader for miniature sensors, sensors with long operating distances and devices for particularly demanding operating conditions (all-metal, high-pressure and high-temperature resistant sensors)
- Represented in over 60 countries worldwide, headquarters in Switzerland
- 8000 products

Technology leader for sensor intelligence and industrial RFID

CONTRINEX - SENSE MORE, DO MORE



INTELLIGENT SENSORS FOR THE 4TH INDUSTRIAL REVOLUTION: INDUSTRY 4.0

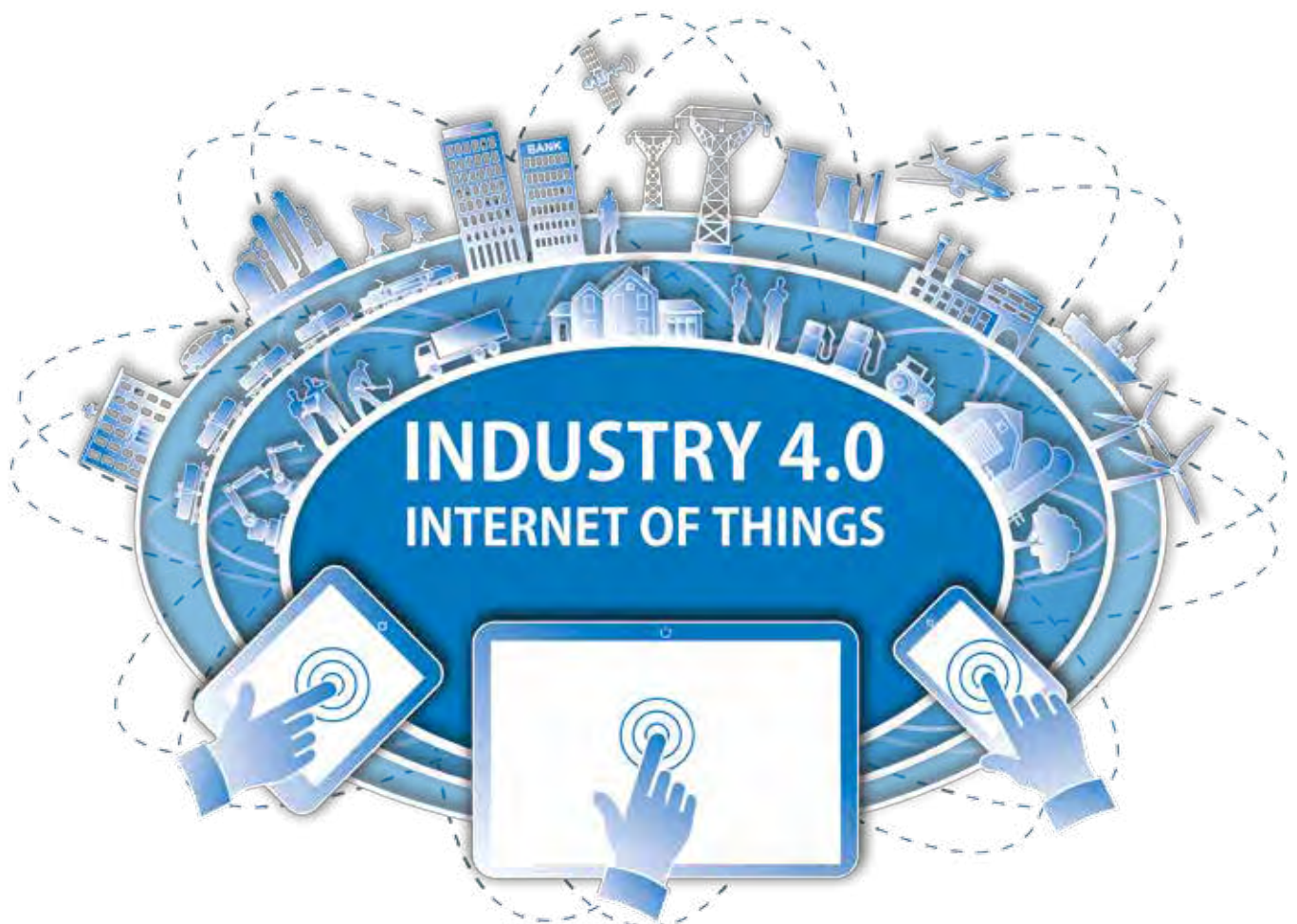
Fit for the future with IO-Link

Intelligent sensors are the fundamental building blocks of modern smart factories. They enable sensor-supported production resources (machines, robots, etc.) to configure, control, manage and optimize themselves. Precise, reliable sensor data is now more essential than ever.

Sensors from Contrinex, the leader in intelligent sensor technology, ensure excellent data quality. To communicate that data, all Contrinex inductive and photoelectric ASIC sensors will be equipped with IO-Link as standard. Customers use either the sensor's binary PNP output or its intelligent IO-Link interface. Both are available in one and the same device.

Another advantage is the fact that, with Contrinex sensors, there is no extra charge for IO-Link. This makes them not only quick and simple to install, but also highly economic.

As the first standardized IO technology worldwide (IEC 61131-9) for communication with sensors and actuators, IO-Link is crucial to the 4th Industrial Revolution. By installing Contrinex ASIC sensors with IO-Link, users can make themselves fit for the future.



MARKET-LEADING INNOVATION

- 1979 Sensor business starts with self-contained subminiature inductive sensors: Ø4 mm (instead of M8 before)
- 1982 Launch of inductive sensor with Condist® technology – market leadership with operating distances 3x standard
- 1986 Launch of Ø3 mm inductive sensors, now market leader for subminiature inductive sensors
- 1996 Market launch of Ø4 mm subminiature photoelectric sensors
- 1999 Launch of world's first inductive sensor with full-metal housing – thanks to patented Condet® technology
- 2005 Integration of Contrinex's excellent performance for inductive sensors in CMOS-ASIC (Application-Specific Integrated Circuit), a proprietary development
- 2007 Launch of RFID products for closed loop industrial applications. First RFID product range with tags and readers in full-metal housing
- 2008 Launch of Safetinx®, the industrial safety product range
- 2009 The smart sensor is born. Launch of next generation ASIC, a “system on a chip”, including IO-Link interface
- 2011 Development starts on Contrinex's first ASIC for photoelectric sensors
- 2014 Launch of photoelectric sensor with new generation Contrinex ASIC and IO-Link
- 2017 Launch of photoelectric sensor with patented UV technology for transparent object detection



Early inductive sensor produced for own use in 1973 (special version for extreme conditions)



ASIC sensor technology



Safety product range



Subminiature photoelectric sensor

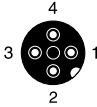
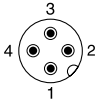


CONNECTIVITY

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

SOCKET	TYPE	PIN ASSIGNMENT	TYPE
	M8 straight plug		M8 3-pole plug
	M12 straight plug		M12 3-pole dual key plug (S13)



example

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
S08-3FVW-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
S08-4FVG-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
S08-4FVW-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
S12-3FVW-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
S12-4FVG-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
S12-4FVW-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
S12-5FVG-020	M12	5-pole	straight	PVC	2 m
S12-5FVG-050	M12	5-pole	straight	PVC	5 m
S12-5FVG-100	M12	5-pole	straight	PVC	10 m
S12-5FVG-150	M12	5-pole	straight	PVC	15 m
S12-5FVG-250	M12	5-pole	straight	PVC	25 m
S12-5FVW-020	M12	5-pole	right angle	PVC	2 m
S12-5FVW-050	M12	5-pole	right angle	PVC	5 m
S12-5FVW-100	M12	5-pole	right angle	PVC	10 m

Inductive

Photoelectric

Safety

RFID

Connectivity

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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
S08-3FUW-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
S08-4FUG-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
S08-4FUW-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
S12-3FUW-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
S12-4FUG-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
S12-4FUG-150	M12	4-pole	straight	PUR	15 m
S12-4FUG-200	M12	4-pole	straight	PUR	20 m
S12-4FUG-250	M12	4-pole	straight	PUR	25 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
S12-4FUW-150	M12	4-pole	right angle	PUR	15 m
S12-4FUW-200	M12	4-pole	right angle	PUR	20 m
S12-4FUW-250	M12	4-pole	right angle	PUR	25 m
S12-5FUG-020	M12	5-pole	straight	PUR	2 m
S12-5FUG-050	M12	5-pole	straight	PUR	5 m
S12-5FUG-100	M12	5-pole	straight	PUR	10 m
S12-5FUG-150	M12	5-pole	straight	PUR	15 m
S12-5FUG-250	M12	5-pole	straight	PUR	25 m
S12-5FUG-150-NWSN	M12	5-pole	straight	PUR/shielded	15 m
S12-5FUG-250-NWSN	M12	5-pole	straight	PUR/shielded	25 m

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S12-8FUG-020	M12	8-pole	straight	PUR	2 m
S12-8FUG-050	M12	8-pole	straight	PUR	5 m
S12-8FUG-100	M12	8-pole	straight	PUR	10 m
S12-8FUG-020-NWSN	M12	8-pole	straight	PUR/shielded	2 m
S12-8FUG-050-NWSN	M12	8-pole	straight	PUR/shielded	5 m
S12-8FUG-100-NWSN	M12	8-pole	straight	PUR/shielded	10 m
S12-8FUG-150-NWSN	M12	8-pole	straight	PUR/shielded	15 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
S12-4FAG-050-NNLN	M12	4	straight	TPE-S	5 m
S12-4FAG-100-NNLN	M12	4	straight	TPE-S	10 m
S12-4FAW-250-NNLN	M12	4	right angle	TPE-S	25 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
S12-5FVG-020-NNLN	M12	5	straight	PVC	2 m
S12-5FVG-100-NNLN	M12	5	straight	PVC	10 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	UNF 1/2"	3	straight	PUR	2 m
S13-3FUG-050	UNF 1/2"	3	straight	PUR	5 m
S13-3FUW-020	UNF 1/2"	3	right angle	PUR	2 m
S13-3FUW-050	UNF 1/2"	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.
S12-4FAG-020-NNLN-12MG	M12	4	straight	TPE-S	2 m	M12	straight
S12-4FAG-100-NNLN-12MG	M12	4	straight	TPE-S	10 m	M12	straight
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
S12-4FVG-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.
S08-3FUG-020-12MG	M8	3	straight	PUR	2 m	M12	straight
S08-4FUG-006-12MG	M8	4	straight	PUR	0.6 m	M12	straight
S08-3FVG-020-12MG	M8	3	straight	PVC	2 m	M12	straight
S08-4FVG-020-12MG	M8	4	straight	PVC	2 m	M12	straight



example

T-CONNECTOR

PART REFERENCE	CONNECTION 1		CABLE		CONNECTION 2	CONNECTION 3
	Size	Pins	Material	Length	Size	Size
V12-4TPD-000-NN1	M12 plug	4	-	No cable	M12 socket	M12 plug
V12-4TPD-000-NNN	M12 plug	4	-	No cable	M12 socket	M12 plug
V12-5TPD-000-NN1	M12 plug	5	-	No cable	M12 socket	M12 plug
V12-8TPD-000-NN2	M12 plug	8	-	No cable	M12 socket	M12 plug
V12-8TPD-000-NN3	M12 plug	8	-	No cable	M12 socket	M12 plug



example

DISTRIBUTION BOXES

PART REFERENCE	SOCKET			CONNECTION
	Size	Pins	Number of connections	Type
V08-30PE-000-NNN	M8	3	Universal - Hood	No cable
V08-31PD-050-UYN	M8	3	10 Plug Distribution box	PUR cable 5 m
V08-31PH-050-UNN	M8	3	10 Outputs - Hood	PUR cable 5 m
V08-34PB-000-NYN	M8	3	4 Plug Distribution box	No cable (hood needed)
V08-34PD-050-UYN	M8	3	4 Plug Distribution box	PUR cable 5 m
V08-38PB-000-NYN	M8	3	8 Plug Distribution box	No cable (hood needed)
V08-38PD-050-UYN	M8	3	8 Plug Distribution box	PUR cable 5 m
V08-38PH-050-UNN	M8	3	8 Outputs - Hood	PUR cable 5 m
V12-50PE-000-NNN	M12	5	Universal - Hood	No cable
V12-54MG-023-NYN	M12	5	4 Plug Distribution box	Connector M23
V12-54PB-000-NYN	M12	5	4 Plug Distribution box	No cable (hood needed)
V12-54PD-020-UYN	M12	5	4 Plug Distribution box	PUR cable 2 m
V12-54PD-050-UYN	M12	5	4 Plug Distribution box	PUR cable 5 m
V12-54PD-100-UYN	M12	5	4 Plug Distribution box	PUR cable 10 m
V12-54PY-050-UYN	M12	5	4 Plug Distribution box + Hood	PUR cable 5 m
V12-58MD-050-UYN	M12	5	8 Plug Metal Distribution box	PUR cable 5 m
V12-58MD-100-UYN	M12	5	8 Plug Metal Distribution box	PUR cable 10 m
V12-58MG-023-NYN	M12	5	8 Plug Metal Distribution box	Connector M23
V12-58PB-000-NYN	M12	5	8 Plug Distribution box	No cable (hood needed)
V12-58PD-020-UYN	M12	5	8 Plug Distribution box	PUR cable 2 m
V12-58PD-050-UYN	M12	5	8 Plug Distribution box	PUR cable 5 m
V12-58PD-100-UYN	M12	5	8 Plug Distribution box	PUR cable 10 m
V12-58PY-020-UYN	M12	5	8 Plug Distribution box + Hood	PUR cable 2 m
V12-58PY-050-UYN	M12	5	8 Plug Distribution box + Hood	PUR cable 5 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	0.08 - 0.38
S08-3FNG-000-NNT2	M8	3	straight	4.0 - 8.0	0.14 - 0.50
S08-3MNG-000-NNT1	M8	3	straight	3.0 - 5.0	0.08 - 0.38
S08-3MNG-000-NNT2	M8	3	straight	4.0 - 8.0	0.14 - 0.50
S12-3FNG-000-NNT1	M12	3	straight	3.0 - 5.0	0.08 - 0.38
S12-3MNG-000-NNT1	M12	3	straight	3.0 - 5.0	0.08 - 0.38
S12-4FNG-000-NNT1	M12	4	straight	3.0 - 5.0	0.08 - 0.38
S12-4FNG-000-NNT2	M12	4	straight	4.0 - 8.0	0.14 - 0.50
S12-4FNG-000-NNT3	M12	4	straight	5.5 - 8.0	0.50 - 1.00
S12-4FNW-000-NNT1	M12	4	right angle	3.0 - 5.0	0.08 - 0.38
S12-4MNG-000-NNT1	M12	4	straight	3.0 - 5.0	0.08 - 0.38
S12-4MNG-000-NNT2	M12	4	straight	4.0 - 8.0	0.14 - 0.50
S12-4MNG-000-NNT3	M12	4	straight	5.5 - 8.0	0.50 - 1.00
S12-4MNW-000-NNT1	M12	4	right angle	3.0 - 5.0	0.08 - 0.38

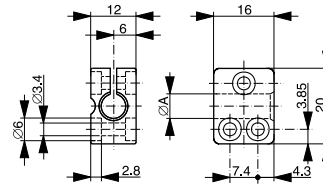
CABLES WITH INTEGRATED LED

PART REFERENCE	SOCKET			CABLE		
	Size	Pins	Config.	Material	Length	LED
S08-3FUW-020-YNNN	M8	3	right angle	PUR	2 m	PNP
S08-3FUW-050-YNNN	M8	3	right angle	PUR	5 m	PNP
S12-3FUW-020-YNNN	M12	3	right angle	PUR	2 m	PNP
S12-3FUW-050-YNNN	M12	3	right angle	PUR	5 m	PNP
S12-3FUW-100-YNNN	M12	3	right angle	PUR	10 m	PNP
S12-3FVW-050-YNNN	M12	3	right angle	PVC	5 m	PNP

ACCESSORIES

SENSOR MOUNTING CLAMPS

Ø3, Ø4, Ø5, Ø6.5, Ø8



TECHNICAL DATA

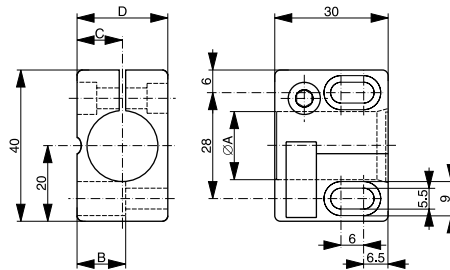
Part reference	Type	A			
ASU-0001-030	without limit stop	Ø 3 mm			
ASU-0001-040	without limit stop	Ø 4 mm			
ASU-0001-050	without limit stop	Ø 5 mm			
ASU-0001-065	without limit stop	Ø 6.5 mm			
ASU-0001-080	without limit stop	Ø 8 mm			
ASU-0002-080	with limit stop	Ø 8 mm			

Material: PA 6 black

Screw: DIN 912, M3 zinc-plated

Nut: DIN 934, M3 zinc-plated

Ø12, Ø18



TECHNICAL DATA

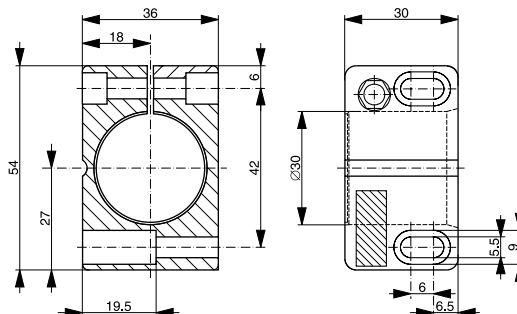
Part reference	Type	A	B	C	D
ASU-0001-120	without limit stop	Ø 12 mm	9.75 mm	9 mm	18 mm
ASU-0002-120	with limit stop	Ø 12 mm	9.75 mm	9 mm	18 mm
ASU-0001-180	without limit stop	Ø 18 mm	12.85 mm	12 mm	24 mm
ASU-0002-180	with limit stop	Ø 18 mm	12.85 mm	12 mm	24 mm

Material: PA 6 GK (Ø 18 mm), PA 6 (Ø 12 mm) black

Screw: DIN 912, M5 zinc-plated

Nut: DIN 934, M5 zinc-plated

Ø30



TECHNICAL DATA

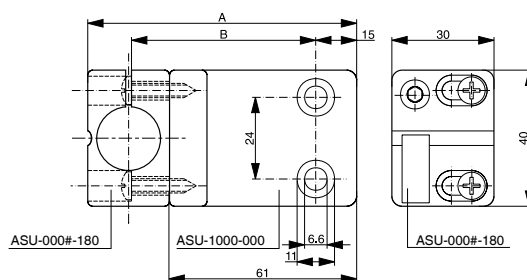
Part reference	Type				
ASU-0001-300	without limit stop	Ø 30 mm			
ASU-0002-300	with limit stop	Ø 30 mm			

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



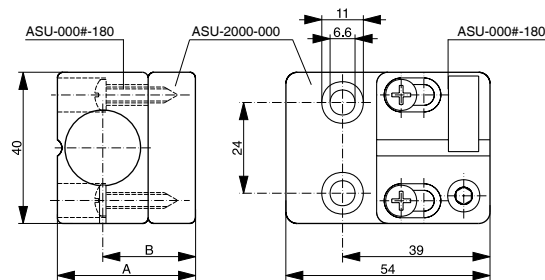
TECHNICAL DATA

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

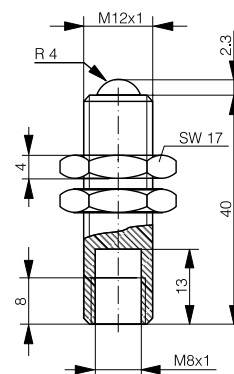
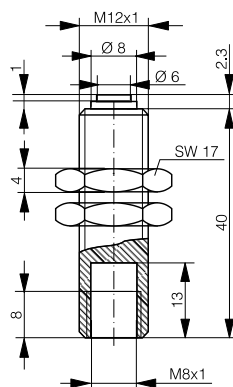
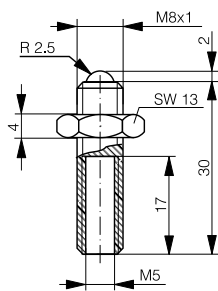
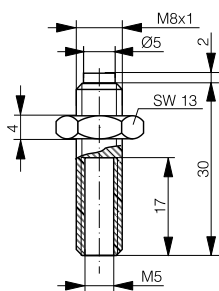
Part reference	Type	A with $\varnothing 12$ mm / $\varnothing 18$ mm	B with $\varnothing 12$ mm / $\varnothing 18$ mm
ASU-2000-000	vertical	30.5 mm / 36.5 mm	21.5 mm / 24.5 mm

Material: PA 6 black

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

MECHANICAL STOPS

FOR M5 AND M8 INDUCTIVE SENSORS

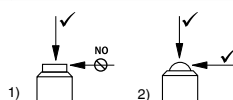


TECHNICAL DATA

Part reference	Inner diameter	Outer diameter	Plunger type	Max. force on housing	Max. force on plunger
AMS-0001-M08	M5 x 0.5	M8 x 1	Flat ¹⁾	8000 N	2000 N
AMS-0002-M08	M5 x 0.5	M8 x 1	Spherical ²⁾	8000 N	2000 N
AMS-0001-M12	M8 x 1	M12 x 1	Flat ¹⁾	15,000 N	2000 N
AMS-0002-M12	M8 x 1	M12 x 1	Spherical ²⁾	15,000 N	2000 N

Material: Steel XC 48, black

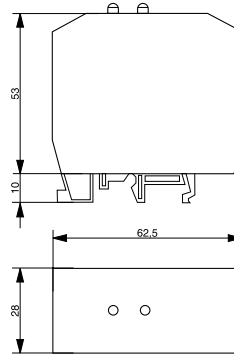
Max. tightening torque: 30 Nm (M08), 50 Nm (M12)



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):



AMPLIFIERS FOR 3-WIRE SENSORS

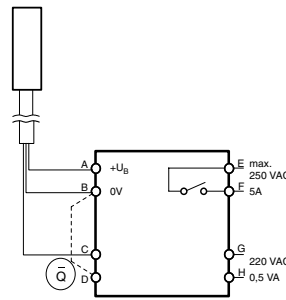
DW-AZ-100-A3

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:



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 600mAh (included)
- Battery life longer than 2 hours at 50 mA current supply
- Micro-USB interface to recharge battery with universal mobile phone charger



AMPLIFIERS FOR NAMUR SENSORS

DW-AZ-100-AN

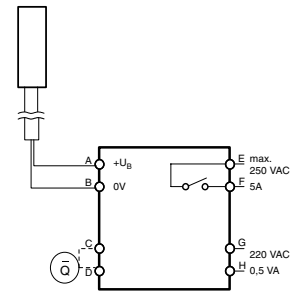
These devices are suitable for NAMUR sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between C and D inverts this function.

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

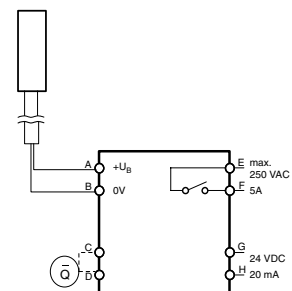
These devices are suitable for NAMUR sensors. Operating the switch activates the relay, and the contact closes. A wire bridge between C and D inverts this function.

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:



DISTRIBUTION BOXES

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

DISTRIBUTION BOX OR T-CONNECTOR

V

CONNECTIONS

Accessory	00
M8	08
M12	12

POLE NUMBER OF CONNECTIONS

3-pole	3
4-pole	4
5-pole	5
8-pole	8

NUMBER OF CONNECTIONS

Hood for all types	0
2 connections	T
4 connections	4
6 connections	6
8 connections	8
10 connections	1

MATERIAL

Plastic	P
Metal	M

SPECIAL EXECUTIONS

TECHNOLOGY

Standard (passive distribution box)	N
Wiring according diagram no.	#

LED

Yes	Y
No	N

CABLE MATERIAL

No cable	N
PVC	V
PUR	U

CONNECTION

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

TYPE

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

AND T-CONNECTORS

<i>Part reference</i>	<i>Chapter/page</i>	<i>Part reference</i>	<i>Chapter/page</i>
V08-30PE-000-NNN	5/446	V12-4TPD-000-NN1	5/447
V08-31PD-050-UYN	5/446	V12-4TPD-000-NNN	5/447
V08-31PH-050-UNN	5/446	V12-5TPD-000-NN1	5/447
V08-34PB-000-NYN	5/446	V12-8TPD-000-NN2	5/447
V08-34PD-050-UYN	5/446	V12-8TPD-000-NN3	5/447
V08-38PB-000-NYN	5/446		
V08-38PD-050-UYN	5/446		
V08-38PH-050-UNN	5/446		
V12-50PE-000-NNN	5/446		
V12-54MG-023-NYN	5/446		
V12-54PB-000-NYN	5/446		
V12-54PD-020-UYN	5/446		
V12-54PD-050-UYN	5/446		
V12-54PD-100-UYN	5/446		
V12-54PY-050-UYN	5/446		
V12-58MD-050-UYN	5/446		
V12-58MD-100-UYN	5/446		
V12-58MG-023-NYN	5/446		
V12-58PB-000-NYN	5/446		
V12-58PD-020-UYN	5/446		
V12-58PD-050-UYN	5/446		
V12-58PD-100-UYN	5/446		
V12-58PY-020-UYN	5/446		
V12-58PY-050-UYN	5/446		

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CABLES / CONNECTORS

S12-4FAG-020[-NNLN-12MG]

CONNECTION CABLE

S

CONNECTOR SIZE FEMALE

M8	08
M12	12
M12 ACDC	13
M23	23

NUMBER OF POLES

3-pole	3
4-pole	4
5-pole	5
8-pole	8
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
15 m	150
20 m	200
25 m	250

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 ²	1
Cable Ø 4.0 - 8.0 mm / wire 0.14 - 0.50 mm ²	2
Cable Ø 5.5 - 8.0 mm / wire 0.5 - 1.0 mm ²	3

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	5/449	S12-3MNG-000-NNT1	5/449	S12-5FVW-020	5/443
S08-3FNG-000-NNT2	5/449	S12-4FAG-020-NNLN-12MG	5/447	S12-5FVW-050	5/443
S08-3FUG-006-08MG	5/446	S12-4FAG-050-NNLN	5/445	S12-5FVW-100	5/443
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S08-3FUG-100	5/444	S12-4FNG-000-NNT3	5/449	S12-8FUG-100-NWSN	5/445
S08-3FUW-020	5/444	S12-4FNW-000-NNT1	5/449	S12-8FUG-150-NWSN	5/445
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* Status April 2018, own assessment

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