



# INDUCTIVE AND CAPACITIVE SENSORS OVERVIEW



# Sensor tester



ST03

### Sensor tester (basic version)

The basic sensor tester for 2- and 3-wire sensors as NAMUR or DC version. Switching function with optical and audible indication.



1-1315

### Sensor tester (advanced version)

The advanced sensor tester for 2-, 3- and 4-wire sensors in NAMUR, DC or AC version. The switching function is indicated with LEDs.

## In our catalogue Sensors 1 you will find:

- POSITION INDICATORS
- ANALOGUE SENSORS
- SENSORS WITH DIRECT CONNECTION TO THE AS-INTERFACE
- SPECIAL SENSORS WITH THE FOLLOWING FEATURES:
  - HIGH PRESSURE RESISTANT UP TO 350 BAR
  - TEMPERATURE RESISTANT UP TO 250 °C
  - REDUCTION FACTOR 1
  - SENSORS FOR SAFETY RELATED APPLICATIONS
  - WELD FIELD IMMUNE
  - INCREASED CONSISTENCY UP TO IP 69K

# Notes

# Capacitive sensors cylindrical and rectangular



Series:

... 12GM, ... 18GM, ... 30GM

... F46, ... FP, VariKont

Mounting:

## Electrical Version

	Sensing range	Part Reference	Figure	Foot-note	Sensing range	Part Reference	Figure	Foot-note
<b>DC 3-Wire</b> E2 = pnp Normally Open 10 V DC ... 60 V DC CJ ...  10 V DC ... 30 V DC CB ... and CC ...	4	CJ4-12GM-E2	1	1) 2)				
	8	CJ8-18GM-E2	2	1) 2)				
	8	CJ8-18GM-E2-V1	9	1) 2)				
	10	CJ10-30GM-E2	3	1) 3)				
	10	CJ10-30GM-E2-V1	4	1) 3)				
<b>DC 4-Wire</b> A2 = pnp, antivalent Normally Open and Normally Closed 10 V DC ... 60 V DC	10	CJ10-30GM-A2	3	1) 3)	15	CJ15+U1+A2	3	1) 2)
	10	CJ10-30GM-A2-V1	4	1) 3)	40	CJ40-FP-A2-P1	2	
<b>AC 2-/3-Wire</b> WS = Normally Open (2-wire) WÖ = Normally Closed (2-wire)	10	CJ10-30GM-WS	6	1) 3)	15	CJ15+U1+W	1	1)
	10	CJ10-30GM-WÖ	5	1) 3)	40	CJ40-FP-W-P1	2	1)
<b>NAMUR/EN 60947-5-6            nominal voltage            8 V DC</b>	1	CJ1-12GK-N	7		2	CBN2-F46-N1	4	
	2	CJ2-18GK-N	8		5	CBN5-F46-N1	4	
	4	CJ4-12GK-N	7		5	CCN5-F46A-N1	5	
	6	CJ6-18GK-N	8		10	CBN10-F46-N1	4	
					10	CCN10-F46A-N1	5	

# Inductive sensors cylindrical

Series:

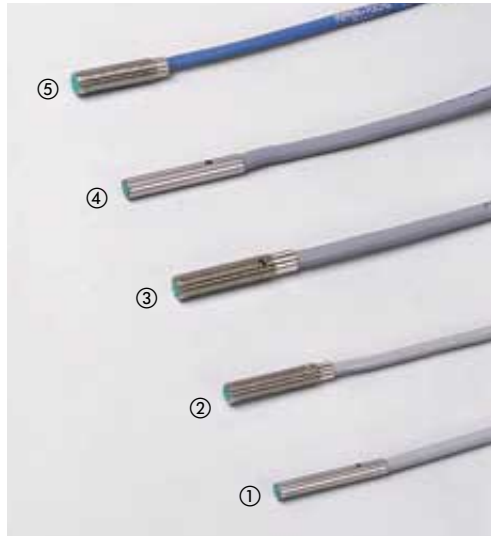
... 3, ... 4GM, ... 5GM

... 6,5, ... 8GM

Mounting:

embeddable

embeddable



## Electrical Version

### DC 2-Wire

Z0 = Normally Open  
Z1 = Normally Closed  
Z4 = Normally Open  
10 V DC ... 30 V DC

### DC 3-Wire

E2 = pnp Normally Open  
10 V DC ... 60 V DC  
NJ ...

10 V DC ... 30 V DC  
NBB .../NBN ...

10 V DC ... 30 V DC  
NEB  
increased sensing range

### DC 4-Wire

A2 = pnp, antivalent  
Normally Open and  
Normally Closed

### AC 2-/3-Wire

WS = Normally Open (2-wire)

**NAMUR/EN 60947-5-6**  
**nominal voltage**  
**8 V DC**

Sensing range	Part Reference	Figure	Foot-note
0,6	NJ0,6-3-22-E2	1	1)
0,6	NJ0,6-4GM22-E2	2	1)
0,8	NBB0,8-4M25-E2	4	
0,8	NBB0,8-5GM25-E2	3	
0,8	NBB0,8-5GM25-E2-V3	–	
1,5	NBB1,5-5GM25-E2-V3	–	
0,8	NJ0,8-5GM-N	5	2)

Sensing range	Part Reference	Figure	Foot-note
1,5	NBB1,5-8GM40-Z1	7	
1,5	NBB1,5-8GM50-Z1-V3	9	
1,5	NJ1,5-6,5-40-E2	8	1)
1,5	NJ1,5-8GM40-E2	7	1)
1,5	NJ1,5-8GM40-E2-V1	14	1)
1,5	NBB1,5-8GM20-E2-V3	1	
1,5	NBB1,5-8GM50-E2	11	
1,5	NBB1,5-8GM40-E2-V1	13	
1,5	NBB1,5-8GM50-E2-V3	15	
2	NBB2-6,5M30-E2	12	
2	NBB2-6,5M25-E2-V3	16	
2	NBB2-8GM30-E2	–	
2	NBB2-8GM25-E2-V3	1	
2	NBB2-8GM30-E2-V1	17	
2	NBB2-8GM40-E2-V3	18	
3	NEB3-8GM45-E2	6	
3	NEB3-8GM50-E2-V3	19	
4	NEB4-8GM45-E2	20	
4	NEB4-8GM50-E2-V3	19	
1,5	NBB1,5-8GM60-A2	5	
1,5	NBB1,5-8GM50-A2-V1	13	
1,5	NCB1,5-6,5M25-N0	2	
1,5	NCB1,5-8GM25-N0	4	
1,5	NCB1,5-8GM25-N0-V1	10	

Foot-notes: 1) Voltage range 10 V DC ... 30 V DC, 2) Without LED

**Other electrical versions on demand**



... 6,5, ... 8GM

not embeddable



... 12GM

embeddable

Sensing range	Part Reference	Figure	Foot-note
2	NBN2-8GM40-Z1	1	
2	NBN2-8GM50-Z1-V3	6	
2	NJ2-6,5-40-E2	7	
2	NJ2-8GM40-E2	5	
2	NJ2-8GM40-E2-V1	2	
2	NBN2-8GM50-E2	-	
2	NBN2-8GM40-E2-V1	2	
2	NBN2-8GM50-E2-V3	-	
3	NBN3-6,5M30-E2	3	
3	NBN3-6,5M25-E2-V3	8	
3	NBN3-8GM30-E2	9	
3	NBN3-8GM25-E2-V3	8	
3	NBN3-8GM30-E2-V1	10	
3	NBN3-8GM45-E2-V3	6	
6	NEN6-8GM45-E2-V3	11	
6	NEN6-8GM45-E2-V1	12	
1,5	NBN2-8GM60-A2	1	
1,5	NBN2-8GM50-A2-V1	4	

Sensing range	Part Reference	Figure	Foot-note
2	NBB2-12GM40-Z0	10	
2	NBB2-12GM40-Z0-V1	12	
4	NCB4-12GM35-Z4	-	
4	NCB4-12GM40-Z4-V1	-	
2	NJ2-12GM40-E2	11	
2	NJ2-12GM40-E2-V1	4	
2	NBB2-12GM40-E2	-	
2	NBB2-12GM40-E2-V1	15	
2	NBB2-12GM50-E2	9	
2	NBB2-12GM50-E2-V1	3	
4	NBB4-12GM30-E2	-	
4	NBB4-12GM30-E2-V1	13	
4	NBB4-12GM30-E2-V3	14	
4	NBB4-12GM50-E2	9	
4	NBB4-12GM50-E2-V1	3	
6	NEB6-12GM50-E2	2	
6	NEB6-12GM50-E2-V1	8	
8	NEB8-12GM50-E2-V1	8	
2	NBB2-12GM60-A2	2	
2	NBB2-12GM60-A2-V1	5	
2	NJ2-12GM50-WS	11	2
2	NJ2-12GM50-WS-V13	4	2
4	NCB4-12GM40-N0-V1	-	
4	NCB4-12GM40-N0-V1	-	
2	NCB2-12GM35-N0	1	
2	NCB2-12GM35-N0-V1	7	

Footnotes: 1) not embeddable 2) embeddable



... 12GM

nicht embeddable



... 18GM

embeddable

Sensing range	Part Reference	Figure	Foot-note
4	NBN4-12GM40-Z0	3	
4	NBN4-12GM40-Z0-V1	6	
8	NCN8-12GM35-Z4	-	
8	NCN8-12GM40-Z4-V1	-	
4	NJ4-12GM40-E2	3	
4	NJ4-12GM40-E2-V1	11	
4	NBN4-12GM40-E2	-	
4	NBN4-12GM40-E2-V1	-	
4	NBN4-12GM50-E2	5	
4	NBN4-12GM50-E2-V1	12	
7	NBN7-12GM35-E2	-	
7	NBN7-12GM35-E2-V1	-	
8	NBN8-12GM50-E2	-	
8	NBN8-12GM50-E2-V1	-	
10	NEN10-12GM50-E2-V1	7	
4	NBN4-12GM60-A2	5	
4	NBN4-12GM60-A2-V1	10	
4	NJ4-12GM50-WS	2	
4	NJ4-12GM50-WS-V13	-	
4	NCN4-12GM35-N0	1	
4	NCN4-12GM35-N0-V1	12	

Sensing range	Part Reference	Figure	Foot-note
5	NBB5-18GM40-Z0	3	
5	NBB5-18GM40-Z0-V1	7	
8	NCB8-18GM50-Z4	-	
8	NCB8-18GM50-Z4-V1	-	
5	NJ5-18GM50-E2	10	
5	NJ5-18GM50-E2-V1	14	
5	NBB5-18GM20-E2	9	
5	NBB5-18GM20-E2-V1	11	
5	NBB5-18GM50-E2	2	
5	NBB5-18GM50-E2-V1	8	
8	NBB8-18GM30-E2	12	
8	NBB8-18GM30-E2-V1	13	
8	NBB8-18GM50-E2	2	
8	NBB8-18GM50-E2-V1	8	
12	NEB12-18GM50-E2	10	
12	NEB12-18GM50-E2-V1	5	
5	NJ5-18GM50-A2	10	
5	NJ5-18GM50-A2-V1	6	
5	NBB5-18GM60-A2	3	
5	NBB5-18GM60-A2-V1	6	
8	NBB8-18GM60-A2	3	
8	NBB8-18GM60-A2-V1	6	
5	NBB5-18GM60-WS	3	
5	NBB5-18GM60-WS-V12	-	
8	NCB8-18GM40-N0	1	
8	NCB8-18GM40-N0-V1	4	
5	NCB5-18GM40-N0	1	
5	NCB5-18GM40-N0-V1	4	



... 18GM

not embeddable

Sensing range	Part Reference	Figure	Foot-note
8	NBN8-18GM40-Z0	3	
8	NBN8-18GM40-Z0-V1	-	
12	NCN12-18GM50-Z4	-	
12	NCN12-18GM50-Z4-V1	8	
8	NJ8-18GM50-E2	2	
8	NJ8-18GM50-E2-V1	5	
8	NBN8-18GM50-E2	1	
8	NBN8-18GM50-E2-V1	5	
12	NBN12-18GM35-E2	-	
12	NBN12-18GM35-E2-V1	-	
12	NBN12-18GM50-E2	1	
12	NBN12-18GM50-E2-V1	5	
20	NEN20-18GM50-E2-V1	5	
8	NJ8-18GM50-A2	2	
8	NJ8-18GM50-A2-V1	9	
8	NBN8-18GM60-A2	2	
8	NBN8-18GM60-A2-V1	6	
8	NBN8-18GM60-WS	3	
8	NBN8-18GM60-WS-V12	-	
8	NCN8-18GM40-N0	4	
8	NCN8-18GM40-N0-V1	6	



... 30GM

embeddable

Sensing range	Part Reference	Figure	Foot-note
10	NBB10-30GM40-Z0	10	
10	NBB10-30GM40-Z0-V1	-	
15	NCB15-30GM50-Z4	-	
15	NCB15-30GM50-Z4-V1	2	
10	NJ10-30GM50-E2	8	
10	NJ10-30GM50-E2-V1	4	
10	NBB10-30GM50-E2	11	
10	NBB10-30GM50-E2-V1	3	
15	NBB15-30GM30-E2	-	
15	NBB15-30GM30-E2-V1	-	
15	NBB15-30GM50-E2	10	
15	NBB15-30GM50-E2-V1	3	
22	NEB22-30GM60-E2-V1	4	
10	NJ10-30GM50-A2	8	
10	NJ10-30GM50-A2-V1	4	
10	NJ10-30GKK-A2	5	
10	NBB10-30GM60-A2	9	
10	NBB10-30GM60-A2-V1	4	
15	NBB15-30GM60-A2	8	
15	NBB15-30GM60-A2-V1	6	
10	NBB10-30GM60-WS	-	
10	NBB10-30GM75-WS-V11	-	
10	NBB10-30GM75-WS-V12	-	
10	NBB10-30GKK-WS	5	
15	NCB15-30GM40-N0	1	
15	NCB15-30GM40-N0-V1	7	
10	NCB10-30GM40-N0	1	
10	NCB10-30GM40-N0-V1	7	

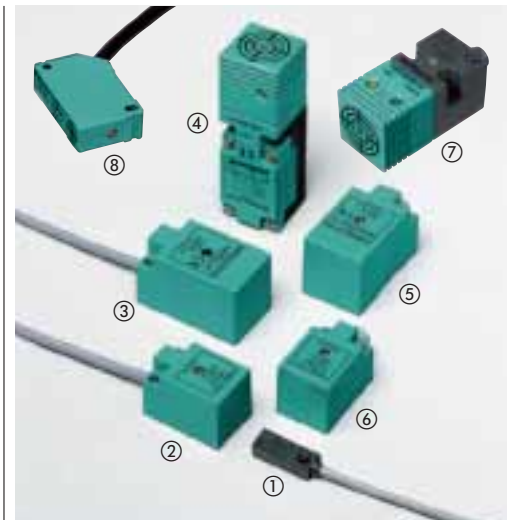
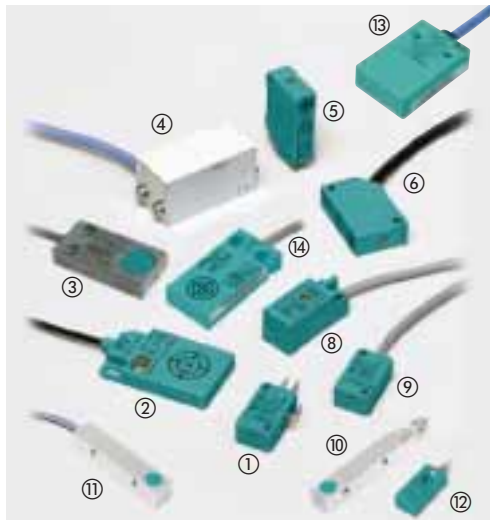


... 30GM

not embeddable

Sensing range	Part Reference	Figure	Foot-note
15	NBN15-30GM40-Z0	2	
15	NBN15-30GM40-Z0-V1	1	
25	NCN25-30GM50-Z4	2	
25	NCN25-30GM50-Z4-V1	8	
15	NJ15-30GM50-E2	3	
15	NJ15-30GM50-E2-V1	7	
15	NBN15-30GM50-E2	4	
15	NBN15-30GM50-E2-V1	5	
22	NBN22-30GM35-E2	-	
22	NBN22-30GM35-E2-V1	-	
25	NBN25-30GM50-E2	4	
25	NBN25-30GM50-E2-V1	5	
40	NEN40-30GM60-E2-V1	5	
15	NJ15-30GM50-A2	3	
15	NJ15-30GM50-A2-V1	7	
10	NJ15-30GKK-A2	-	
15	NBN15-30GM60-A2	2	
15	NBN15-30GM60-A2-V1	5	
15	NBN15-30GM60-WS	2	
15	NBN15-30GM75-WS-V11	-	
15	NBN15-30GM75-WS-V12	-	
15	NBN15-30GKK-WS	9	
15	NCN15-30GM40-N0	6	
15	NCN15-30GM40-N0-V1	1	

# Inductive sensors rectangular and flat housing



**Series:**

... F, ... F1, ... F9, ... F17, ... F33, F41, ... F79, ... V3

... F1, ... F10, ... F11, ... F29, VariKont M

**Mounting:**

embeddable

not embeddable

## Electrical Version

### DC 2-Wire

Z = Normally Open  
Z2 = Normally Closed or Normally Open  
Z4 = Normally Closed  
10 V DC ... 30 V DC

Sensing range	Part Reference	Figure	Foot-note
3	NBB3-V3-Z4	9	

Sensing range	Part Reference	Figure	Foot-note
15	NCN15-M1K-Z2	4	

### DC 3-Wire

E2 = pnp Normally Open  
E5 = Normally Open or Normally Closed  
10 V DC ... 60 V DC  
NJ .../NCB .../NCN ...  
  
10 V DC ... 30 V DC  
NBB .../NBN ...

6	NJ6-F-E2	13	
2	NJ2-F1-E2	6	3)
2	NJ2-F1-E2-V3	5	3)
10	NCB10-F17-E2	2	
5	NBB5-F33-E2	14	
1.5	NBB1,5-F41-E2	11	
1.5	NBB1,5-F41-E2-V3	10	
1.5	NBB1,5-F41A-E2	-	1)
1.5	NBB1,5-F41A-E2-V3	-	1)
2	NBB2-V3-E2	9	
2	NBB2-V3-E2-V5	1	
5	NBB5-F9-E2	8	
5	NBB5-F9-E2-V3	7	
5	NBB5-F33-E2	14	
5	NBB5-F33M-E2	3	
1.5	NBB1,5-F79-E2	12	

15	NCN15-M1K-E5	4	
4	NJ4-F1-E2	8	3)
4	NJ4-F1-E2-V3	8	3)
4	NBN4-F29-E2	1	
10	NBN10-F10-E2	2	
10	NBN10-F10-E2-V1	6	
15	NBN15-F11-E2	3	
15	NBN15-F11-E2-V1	5	
15	NJ15-M1-E2-V1	7	3)

### DC 4-Wire

A2 = pnp, antivalent  
Normally Open and  
Normally Closed

6	NJ6-F-A2	13	
6	NBB2-F29-A2	-	
6	NBB5-F33-A2	14	
6	NBB5-F33M-A2	3	

15	NJ15-M1K-A2	4	
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### AC 2-/3-Wire

U = Allstrom AC/DC  
W = wiring prog. (2-wire)  
20-250 V AC  
W4 = antivalent (4-wire)  
20-250 V AC

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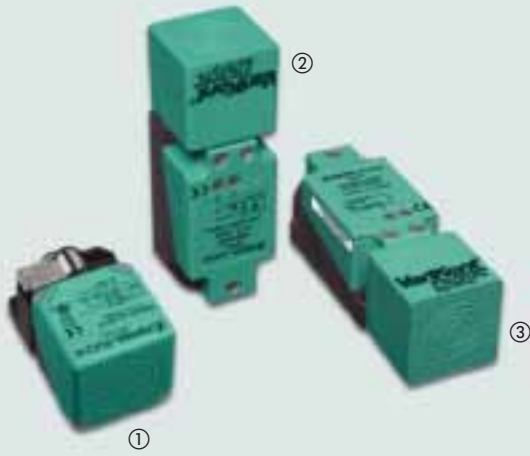
### NAMUR/EN 60947-5-6 nominal voltage 8 V DC

2	NCB2-F1-N0	6	2)
2	NJ2-V3-N	9	2)
2	NJ2-V3-N-V5	5	2)
6	NJ6-F-N	13	2)
7	FJ7-N	4	2)

15	NCN15-M1K-N0	4	
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Foot-notes: 1) Active face centered, for the rest see ...F41... 2) Without LED





... VariKont, VariKont L

embeddable

Sensing range	Part Reference	Figure	Foot-note
15	NCB15+U1-Z2	2	
15	NJ15+U1+E2	2	
15	NJ15+U10+E2	3	
20	NJ20+U1+E2	2	
20	NJ20+U10+E2	3	
20	NBB20-L2-E2-V1	1	
15	NJ15+U1+A2	2	
15	NJ15+U10+A2	3	
20	NJ20+U1+A2	2	
20	NJ20+U10+A2	3	
20	NBB20-L2-A2-V1	1	
15	NCB15+U1+U	2	
15	NJ15+U1+W	2	
15	NJ15+U1+W4	2	
15	NCB15+U1+N0	2	



... VariKont, VariKont L

not embeddable

Sensing range	Part Reference	Figure	Foot-note
20	NCN20+U1-Z2	3	
20	NCN30+U1-Z2	3	
20	NCN40+U1-Z2	2	
30	NJ30+U1+E2	3	
30	NJ30+U10+E2	4	
40	NCN40+U1+E2	3	
30	NBN30-L2-E2-V1	1	
40	NBN40-L2-E2-V1	1	
30	NJ30+U1+A2	3	
40	NCN40+U1+A2	3	
40	NBN40-L2-A2-V1	1	
30	NBN30-L2-A2-V1	1	
20	NCN20+U1+U	3	
40	NCN40+U1+U	2	
20	NJ20+U1+W	3	
20	NJ20+U1+W4	3	
20	NCN20+U1+N0	3	
30	NCN30+U1+N0	3	
40	NCN40+U1+N0	2	



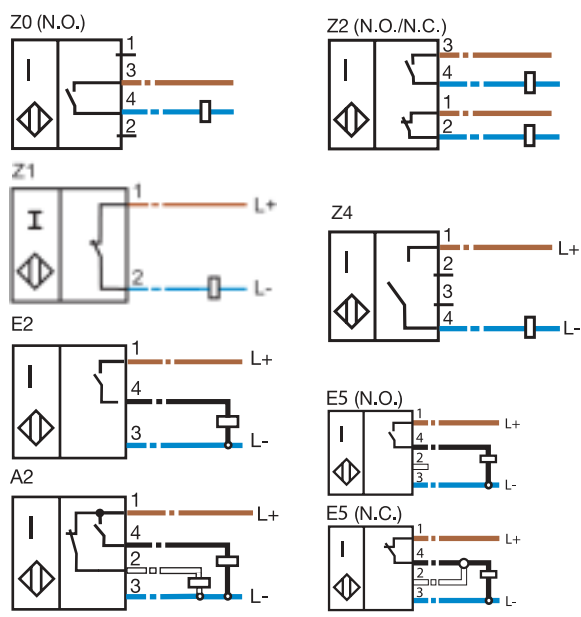
... FP, ... F23

Sensing range	Part Reference	Figure	Foot-note
50	NCN50-FP-Z2-P1	-	1)
100	NCN100-F23-E2-V1	3	1)
40	NCB40-FP-A2-P1	2	2)
50	NCN50-FP-A2-P1	2	1)
50	NCB50-FP-A2-P1	1	2)
40	NCB40-FP-W-P	1	2)
50	NCN50-FP-W-P1	1	1)
40	NCN40-FP-W-T-P1	1	1)
40	NCB40-FP-N0-P1	1	2)
50	NCN50-FP-N0-P1	2	1)

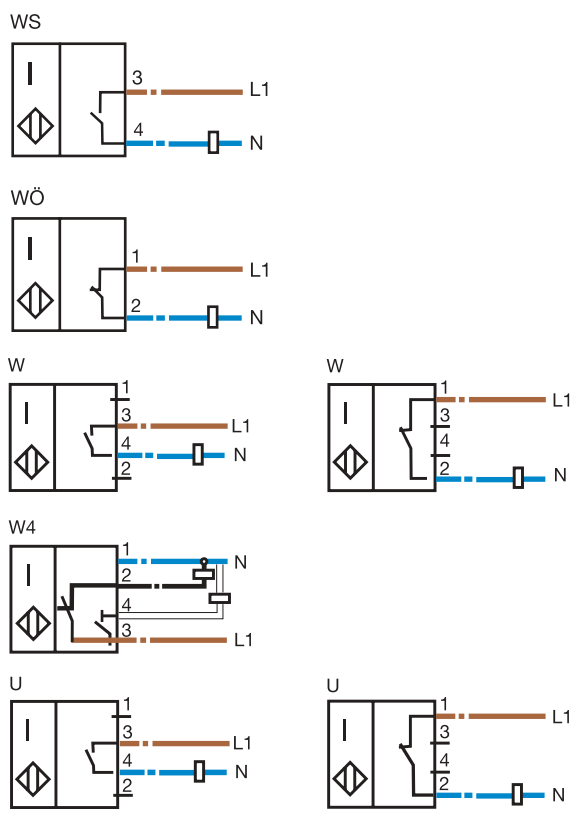
Foot-notes: 1) not embeddable 2) embeddable

# electrical output

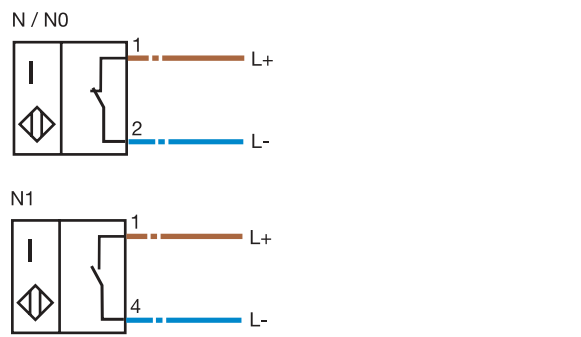
## 2, 3, 4-wire



## AC/DC, AC



## NAMUR



# Inductive sensors slot and ring type



Series:

S/SC 2 ... 30

R/RC 10 ... 43

## Electrical Version

Electrical Version	Entry depth	Part Reference		Figure	Inner diameter	Part Reference		Figure
		Part Reference	Figure			Part Reference	Figure	
<b>DC 2-Wire</b> Zo = Normally Closed	5 ... 7	SB2-Z0		4				
	5 ... 7	SB3,5-E2		1	21	RJ21-E2		2
	13 ... 16	SJ10-E2		5	43	RJ43-E2		4
<b>DC 3-Wire</b> E2 = pnp Normally Closed 10 V DC ... 60 V DC SJ .../RJ ...	17 ... 19	SJ15-E2		6				
	17 ... 20	SJ15-A2		6				
	27 ... 31	SJ30-A2		7				
<b>DC 4-Wire</b> A2 = pnp, antivalent Normally Open and Normally Closed	18 ... 20	SJ15-WS		6				
	27 ... 31	SJ30-WS		7				
<b>NAMUR/EN 60947-5-6</b> nominal voltage 8 V DC	5 ... 7	SC2-N0		4	10	RC10-14-N0		1 1)
	5 ... 7	SC3,5-N0		1	15	RC15-14-N0		3 1)
	4 ... 6	SJ5-N		2 1)	21	RJ21-N		2 1)
	13 ... 16	SJ10-N		5 1)	43	RJ43-N		4 1)
	16 ... 19	SJ15-N		6 1)				
	27 ... 30	SJ30-N		7 1)				

Foot-notes: 1) Without LED

Other electrical versions on demand

# Mounting accessories



Mounting clamps

Part Reference

Part Reference	Figure
BF 4	1
BF 5	2
BF 6,5	3
BF 8	4
BF 12	5
BF 18	6
BF 30	7
BF 40	8
BF12-F	9
BF18-F	10
BF30-F	11

**Adjustable Brackets for Cylindrical Sensors:**

The bracket (BF) for mounting cylindrical sensors directly on plane surfaces, can be adjusted with two screws.

Types BF...-F with fixed stop. In the event of a fault the sensor can be replaced without adjustment.



Mounting brackets

Part Reference

Part Reference	Figure
MH 04-2681	1
MH 04-2057	2
MH 04-3742	3
MH 02-L	4
OMH04	5

**MH 04-2681**

Mounting bracket for use with VariKont (... + U1 + ...) series. It is used to provide 360° turning range of the sensor and can be mounted on a C section rail acc. to EN 50024, allowing easy adjustment of the switching point within a range of max. 20 mm.

**MH 04-2057**

Mounting bracket for use with VariKont (... + U1+ - ...) series, allowing easy adjustment of the switching point along the x-axis within a range of max. 30 mm.

**MH 04-3742**

Mounting bracket for use with VariKont M (... - M1K - ...) series, allowing easy adjustment of the switching point along the x-axis within a range of max. 12 mm.

**MH 02-L**

Mounting bracket for use with VariKont L (... - L2 - ...) series. It can be mounted on a C section rail acc. to EN 50024, allowing easy adjustment of the switching point within a range of max. 60 mm.

**OMH-04**

Mounting bracket for fastening M18 sensors to a 12 mm round steel. Adjustment via lock nuts and 360° turning range in two planes.



Cable protectors

Part Reference

Part Reference	Figure
SM 8	1
SM 12	2
SM 14	3
SM 18	4
SM 30	5



**SM...**

These cable protectors are available for M8, M12, M14, M18 and M30 cylindrical sensors.

# Cable connectors

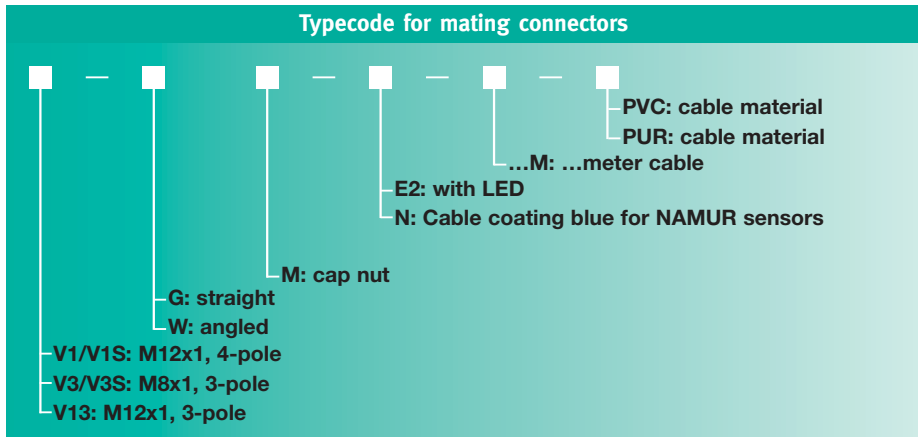


All mating connectors are also available with 10 m and 20 m cable lengths. Irradiated or shielded cable on demand.

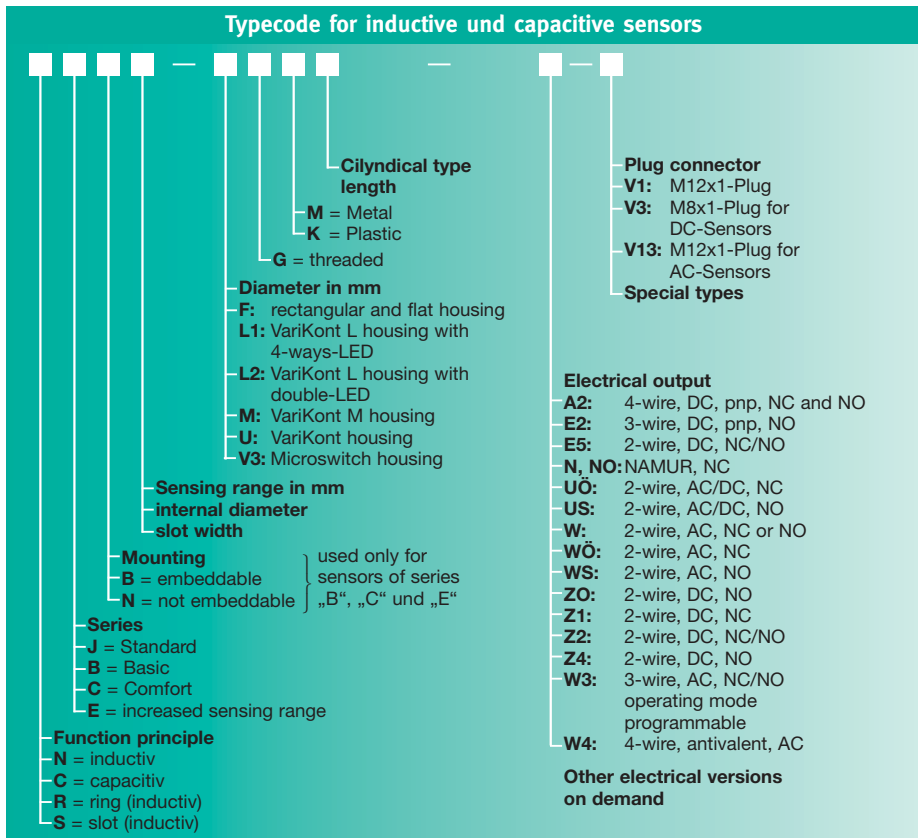
Part Reference	
V1-G	1
V1-W	2
V1-G-2M-PVC (...-PUR)	3
V1-G-5M-PVC (...-PUR)	3
V1-G-N-5M-PUR	-
V1-W-2M-PVC (...-PUR)	4
V1-W-5M-PVC (...-PUR)	4
V1-W-E2-2M-PUR	5
V1-W-E2-5M-PUR	5
as plug: V1S-...	-
as ext. lead: ...-V1-G (-V1-W)	-
	
V3-GM	6
V3-WM	7
V3-GM-2M-PUR	8
V3-GM-5M-PUR	8
V3-WM-E2-2M-PUR	9
V3-WM-E2-5M-PUR	9
as plug: V3S-...	-
as ext. lead: ...-V3-G (-V3-W)	-
	

Figure

# Typecode Mating connectors



# Typecode Sensors





## SIGNALS FOR THE WORLD OF AUTOMATION

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