



# INDUCTIVE AND CAPACITIVE SENSORS OVERVIEW



## Capacitive sensors cylindrical and rectangular



Series:

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

Mounting:

... F46, ... FP, VariKont

### Electrical Version

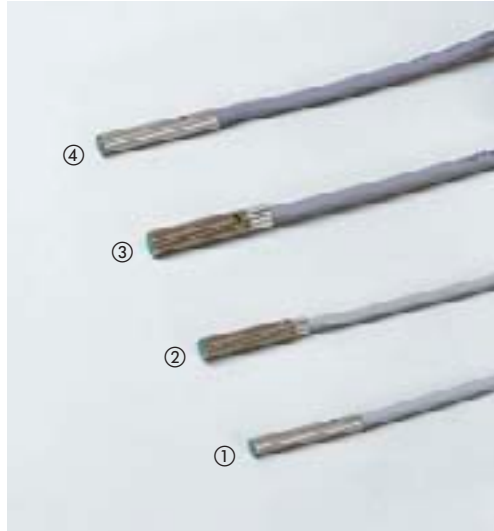
Electrical Version	Sensing range	Part reference	Figure		Footnote
			Figure	Footnote	
<b>DC 3-Wire</b> E2 = pnp Normally Open 10 V DC ... 60 V DC CJ ...  10 V DC ... 30 V DC CB ... and CC ...	4	CJ4-12GM-E2	1	1) 2)	
	4	CJ4-12GM-E2-V1	10	1) 2)	
	8	CJ8-18GM-E2	2	1) 2)	
	8	CJ8-18GM-E2-V1	9	1) 2)	
	10	CJ10-30GM-E2	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)	
	10	CJ10-30GM-A2-V1	4	1) 3)	
<b>AC 2-/3-Wire</b> WS = Normally Open (2-Wire) WÖ = Normally closed (2-Wire)	10	CJ10-30GM-WS	6	1) 3)	
	10	CJ10-30GM-WÖ	5	1) 3)	
<b>NAMUR/EN 60947-5-6</b> nominal voltage 8 V DC	1	CJ1-12GK-N	7		
	2	CJ2-18GK-N	8		
	4	CJ4-12GK-N	7		
	6	CJ6-18GK-N	8		

Electrical Version	Sensing range	Part reference	Figure		Footnote
			Figure	Footnote	
	2	CBN2-F46-E2	4		
	2	CCN2-F46A-E2	5		
	5	CBN5-F46-E2	4		
	5	CCN5-F46A-E2	5		
	10	CBN10-F46-E2	4		
	10	CCN10-F46A-E2	5		
	15	CJ15+U1+A2	3	1) 2)	
	40	CJ40-FP-A2-P1	2		
	15	CJ15+U1+W	1	1)	
	40	CJ40-FP-W-P1	2	1)	
	2	CBN2-F46-N1	4		
	5	CBN5-F46-N1	4		
	5	CCN5-F46A-N1	5		
	10	CBN10-F46-N1	4		
	10	CCN10-F46A-N1	5		

Footnotes: 1) Adjustable with potentiometer 2) Voltage range 10 V DC ... 30 V DC 3) Solid plastic housing on demand

Other electrical versions on demand

## Inductive sensors cylindrical



Series:

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

Mounting:

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	Footnote
0,6	NJ0,6-3-22-E2	1	1)
0,6	NJ0,6-4GM22-E2	2	1)
1	NBB1-4GM22-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	-	2)



... 6,5 ... 8GM

embeddable

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



... 6,5 ... 8GM

not embeddable



... 12GM

embeddable

Sensing range	Part reference	Figure	Footnote
2	NBN2-8GM40-Z1	9	
2	NBN2-8GM50-Z1-V3	6	
2	NCN2-8GM40-Z1	-	
2	NCN2-8GM50-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	NBN2-8GM50-E2-V3	-	
3	NBN3-6,5M30-E2	3	
3	NBN3-6,5M25-E2-V3	-	
3	NBN3-8GM30-E2	9	
3	NBN3-8GM25-E2-V3	8	
3	NBN3-8GM30-E2-V1	10	
3	NBN3-8GM50-E2	-	
6	NEN6-8GM45-E2-V3	11	
6	NEN6-8GM45-E2-V1	12	
2	NBN2-8GM50-A2-V1	4	
2	NBN2-8GM60-A2	-	

Sensing range	Part reference	Figure	Footnote
2	NBB2-12GM40-Z0	-	
2	NBB2-12GM40-Z0-V1	12	
2	NCB2-12GM40-Z1	-	
2	NCB2-12GM40-Z1-V1	12	
4	NCB4-12GM35-Z4	-	
4	NCB4-12GM40-Z4-V1	12	
2	NJ2-12GM40-E2	11	
2	NJ2-12GM40-E2-V1	4	
2	NBB2-12GM50-E2	9	
2	NBB2-12GM50-E2-V1	5	
4	NBB4-12GM30-E2	16	
4	NBB4-12GM30-E2-V1	13	
4	NBB4-12GM30-E2-V3	14	
4	NBB4-12GM50-E2	6	
4	NBB4-12GM50-E2-V1	5	
6	NEB6-12GM50-E2	10	
6	NEB6-12GM50-E2-V1	4	
8	NEB8-12GM50-E2-V1	-	
2	NBB2-12GM60-A2	2	
2	NBB2-12GM60-A2-V1	8	
4	NBB4-12GM50-A2	10	
4	NBB4-12GM50-A2-V1	5	
2	NJ 2-12GM50-WS	10	
2	NJ 2-12GM50-WS-V11	4	
2	NJ 2-12GM50-WS-V12	4	
2	NJ 2-12GM50-WS-V13	4	
2	NCB2-12GM35-N0	1	
2	NCB2-12GM35-N0-V1	-	
4	NCB4-12GM40-N0	-	
4	NCB4-12GM40-N0-V1	-	

Other electrical versions on demand



... 12GM

not embeddable



... 18GM

embeddable

Sensing range	Part reference	Figure	Footnote
4	NBN4-12GM40-Z0	-	
4	NBN4-12GM40-Z0-V1	12	
4	NCN4-12GM40-Z1	-	
4	NCN4-12GM40-Z1-V1	12	
8	NCN8-12GM35-Z4	-	
8	NCN8-12GM40-Z4-V1	12	
4	NJ4-12GM40-E2	3	
4	NJ4-12GM40-E2-V1	11	
4	NBN4-12GM50-E2	-	
4	NBN4-12GM50-E2-V1	11	
7	NBN7-12GM35-E2	4	
7	NBN7-12GM35-E2-V1	8	
8	NBN8-12GM50-E2	2	
8	NBN8-12GM50-E2-V1	6	
10	NEN10-12GM50-E2-V1	7	
4	NBN4-12GM35-A2-V1	-	
4	NBN4-12GM60-A2	5	
4	NBN4-12GM60-A2-V1	10	
8	NBN8-12GM50-A2	2	
8	NBN8-12GM50-A2-V1	6	
4	NJ4-12GM50-WS	-	
4	NJ4-12GM50-WS-V11	7	
4	NJ4-12GM50-WS-V12	7	
4	NJ4-12GM50-WS-V13	7	
4	NCN4-12GM35-N0	1	
4	NCN4-12GM35-N0-V1	12	

Sensing range	Part reference	Figure	Footnote
5	NBB5-18GM40-Z0	2	
5	NBB5-18GM40-Z0-V1	7	
5	NCB5-18GM40-Z1	2	
5	NCB5-18GM40-Z1-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	3	
5	NBB5-18GM50-E2-V1	8	
8	NBB8-18GM30-E2	12	
8	NBB8-18GM30-E2-V1	13	
8	NBB8-18GM50-E2	3	
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	14	
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-V11	-	
5	NBB5-18GM60-WS-V12	-	
5	NCB5-18GM40-N0	1	
5	NCB5-18GM40-N0-V1	4	
8	NCB8-18GM40-N0	1	
8	NCB8-18GM40-N0-V1	4	

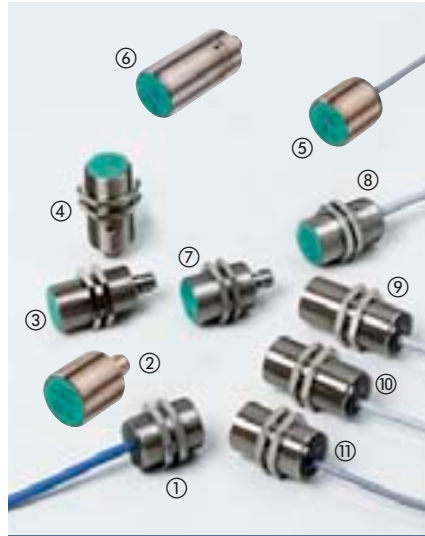
Other electrical versions on demand



... 18GM

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Sensing range	Part reference	Figure	Footnote
8	NBN8-18GM40-Z0	1	
8	NBN8-18GM40-Z0-V1	-	
8	NCN8-18GM40-Z1	1	
8	NCN8-18GM40-Z1-V1	-	
12	NCN12-18GM50-Z4	-	
12	NCN12-18GM50-Z4-V1	7	
8	NJ8-18GM50-E2	2	
8	NJ8-18GM50-E2-V1	5	
8	NBN8-18GM50-E2	3	
8	NBN8-18GM50-E2-V1	5	
12	NBN12-18GM35-E2	-	
12	NBN12-18GM35-E2-V1	9	
12	NBN12-18GM50-E2	3	
12	NBN12-18GM50-E2-V1	5	
20	NEN20-18GM50-E2-V1	5	
8	NJ8-18GM50-A2	2	
8	NJ8-18GM50-A2-V1	8	
8	NBN8-18GM60-A2	-	
8	NBN8-18GM60-A2-V1	8	
12	NBN12-18GM50-A2	3	
12	NBN12-18GM50-A2-V1	5	
8	NBN8-18GM60-WS	-	
8	NBN8-18GM60-WS-V11	-	
8	NBN8-18GM60-WS-V12	-	
8	NCN8-18GM40-N0	4	
8	NCN8-18GM40-N0-V1	6	



... 30GM

embeddable

Sensing range	Part reference	Figure	Footnote
10	NBB10-30GM40-Z0	11	
10	NBB10-30GM40-Z0-V1	7	
10	NCB10-30GM40-Z1	-	
10	NCB10-30GM40-Z1-V1	-	
15	NCB15-30GM50-Z4	-	
15	NCB15-30GM50-Z4-V1	-	
10	NJ10-30GM50-E2	8	
10	NJ10-30GM50-E2-V1	-	
10	NBB10-30GM50-E2	10	
10	NBB10-30GM50-E2-V1	3	
15	NBB15-30GM30-E2	5	
15	NBB15-30GM30-E2-V1	2	
15	NBB15-30GM50-E2	10	
15	NBB15-30GM50-E2-V1	3	
22	NEB22-30GM60-E2-V1	6	
10	NJ10-30GM50-A2	8	
10	NJ10-30GM50-A2-V1	4	
10	NBB10-30GM60-A2	9	
10	NBB10-30GM60-A2-V1	4	
15	NBB15-30GM60-A2	-	
15	NBB15-30GM60-A2-V1	6	
10	NBB10-30GM50-WS	10	
10	NBB10-30GM50-WS-V11	-	
10	NBB10-30GM50-WS-V12	-	
15	NBB15-30GM50-WS	10	
15	NBB15-30GM50-WS-V11	-	
15	NBB15-30GM50-WS-V12	-	
10	NCB10-30GK40-N0	-	
10	NCB10-30GM40-N0	1	
10	NCB10-30GM40-N0-V1	7	

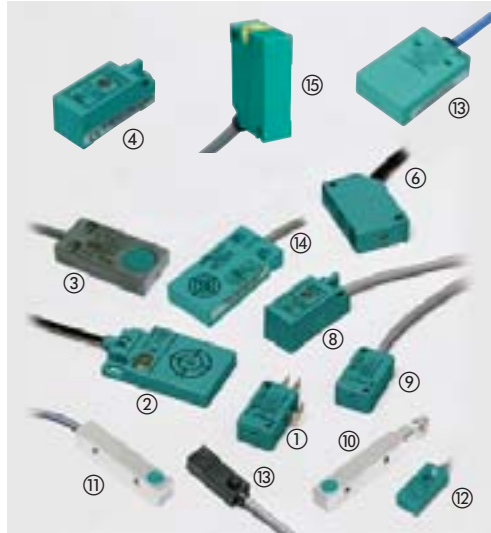


... 30GM

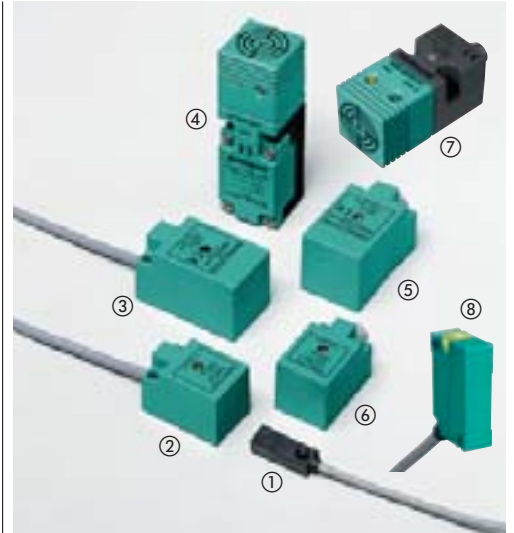
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Sensing range	Part reference	Figure	Footnote
15	NBN15-30GM40-Z0	6	
15	NBN15-30GM40-Z0-V1	1	
15	NCN15-30GM40-Z1	8	
15	NCN15-30GM40-Z1-V1	9	
25	NCN25-30GM50-Z4	2	
25	NCN25-30GM50-Z4-V1	-	
15	NJ15-30GM50-E2	3	
15	NJ15-30GM50-E2-V1	-	
15	NBN15-30GM50-E2	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	-	
15	NJ15-30GM50-A2	3	
15	NJ15-30GM50-A2-V1	7	
15	NBN15-30GM60-A2	2	
15	NBN15-30GM60-A2-V1	-	
15	NCN15-30GK40-N0	-	
15	NCN15-30GM40-N0	6	
15	NCN15-30GM40-N0-V1	1	

## Inductive sensors rectangular and flat housing



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



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

Series:

Mounting:

embeddable

not embeddable

### Electrical Version

#### DC 2-Wire

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

Sensing range

Part reference

Figure

Footnote

3

NBB3-V3-Z4

9

#### 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

NBB2-F1-E2

15

2

NBB2-F1-E2-V3

-

4

NBB4-F1-E2

15

4

NBB4-F1-E2-V3

-

10

NCB10-F17-E2

2

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-V3

-

2

NBB2-V3-E2-V5

1

5

NBB5-F9-E2

8

5

NBB5-F9-E2-V3

4

5

NBB5-F33-E2

14

5

NBB5-F33M-E2

3

1.5

NBB1,5-F79-E2

12

#### DC 4-Wire

A2 = pnp, antivalent  
Normally Open and  
Normally Closed

6

NJ6-F-A2

13

2

NBB2-F29-A2

-

4

NBB4-F1-A2

15

5

NBB5-F33-A2

14

5

NBB5-F33M-A2

3

#### 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

#### NAMUR/EN 60947-5-6

nominal voltage  
8 V DC

2

NJ2-F1-N

6

2)

2

NJ2-V3-N

9

2)

2

NJ2-V3-N-V5

-

2)

6

NJ6-F-N

13

2)

Sensing range

Part reference

Figure

Footnote

15

NCN15-M1K-Z2

4

15

NCN15-M1K-E5

4

8

NBN8-F1-E2

8

8

NBN8-F1-E2-V3

-

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)

15

NJ15-M1K-A2

4

4

NBN4-F29-A2

1

8

NBN8-F1-A2

8

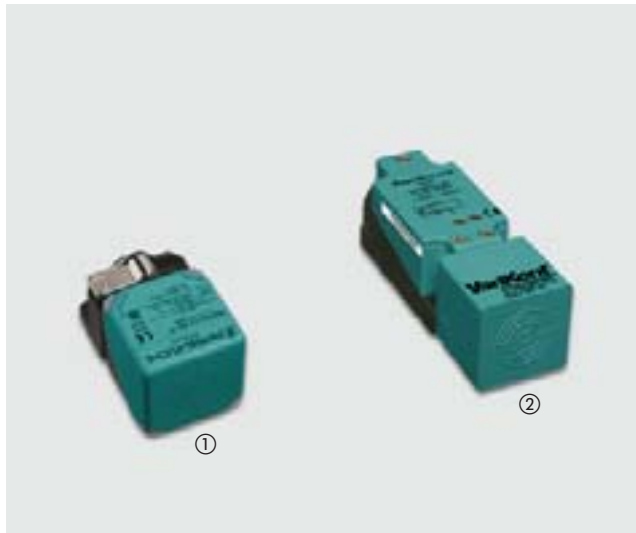
15

NCN15-M1K-N0

4

Footnotes: 1) Active face centered, for the rest see ...F41... 2) Without LED

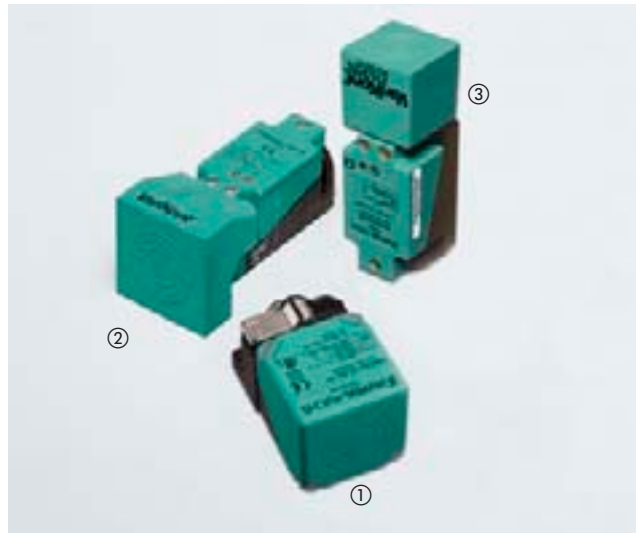
3) Operational voltage 10 V DC ... 30 V DC



... VariKont, VariKont L

embeddable

Sensing range	Part reference	Figure	Footnote
15	NCB15+U1+Z2	2	
20	NBB20-L2-Z4-V1	1	
15	NJ15+U1+E2	2	
20	NJ20+U1+E2	2	
20	NBB20-L2-E2-V1	1	
15	NJ15+U1+A2	2	
20	NJ20+U1+A2	2	
20	NBB20-L2-A2-V1	1	
15	NCB15+U1+N0	2	
15	NJ15+U1+W	2	
15	NCB15+U1+N0	2	
20	NCB20-L2-N0-V1	1	



... VariKont, VariKont L

not embeddable

Sensing range	Part reference	Figure	Footnote
20	NCN20+U1+Z2	3	
30	NCN30+U1+Z2	3	
40	NCN40+U1+Z2	2	
40	NBN40-L2-Z4-V1	1	
30	NJ30+U1+E2	3	
40	NJ40+U1+E2	2	
40	NBN40-L2-E2-V1	1	
30	NJ30+U1+A2	3	
40	NCN40+U1+A2	3	
30	NBN30-L2-A2-V1	1	
40	NBN40-L2-A2-V1	1	
20	NCN20+U1+U	3	
30	NCN30+U1+U	3	
40	NCN40+U1+U	2	
20	NJ20+U1+W	3	
30	NJ30+U1+W	3	
40	NJ40+U1+W	2	
20	NCN20+U1+N0	3	
30	NCN30+U1+N0	3	
40	NCN40+U1+N0	2	
40	NCN40-L2-N0-V1	1	



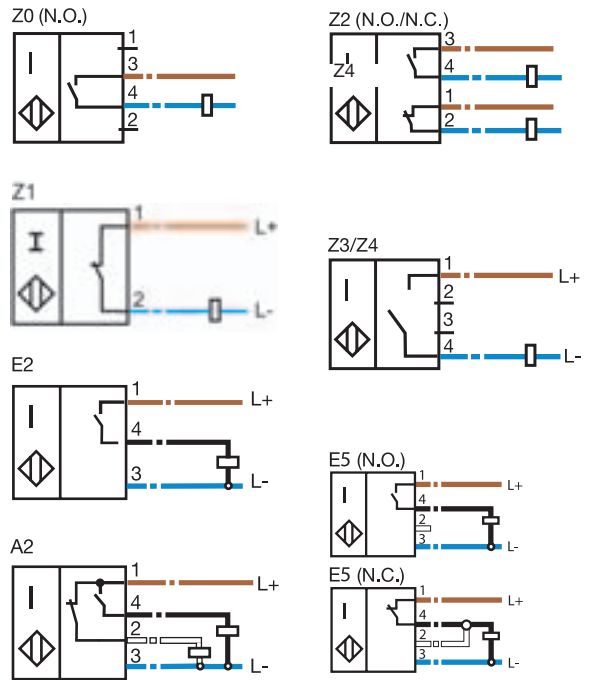
... FP, ... F23

Sensing range	Part reference	Figure	Footnote
50	NCN50-FP-Z2-P1	2	1)
50	NCN50-FP-Z4-V1	2	1)
50	NCB50-FP-Z2-P1	1	2)
50	NCB50-FP-Z4-V1	1	2)
100	NCN100-F23-E2-V1	3	1)
40	NCB40-FP-A2-P1	2	2)
40	NCB40-FP-A2-P1-V1	-	2)
50	NCN50-FP-A2-P1	2	1)
50	NCN50-FP-A2-P1-V1	-	1)
50	NCB50-FP-A2-P1	1	2)
50	NCB50-FP-A2-P1-V1	-	2)
40	NCB40-FP-W-P1	2	2)
50	NCN50-FP-W-P1	2	1)
40	NCB40-FP-N0-P1	-	2)
50	NCN50-FP-N0-P1	-	1)

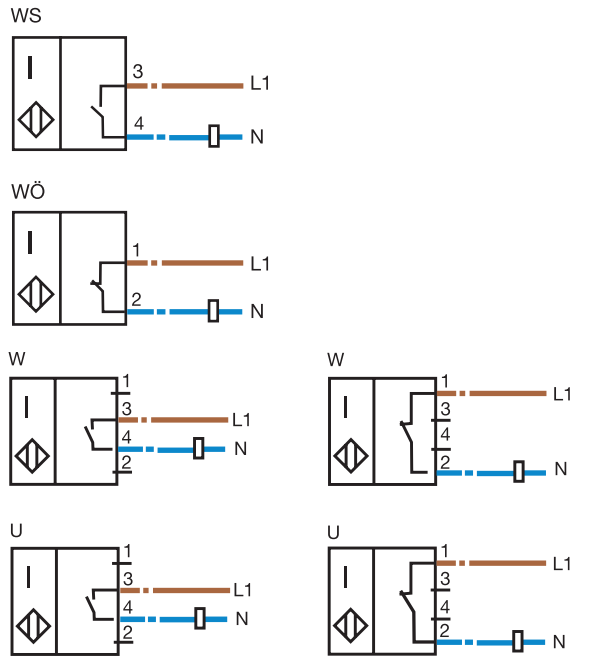
Footnotes: 1) not embeddable 2) embeddable

# Electrical output

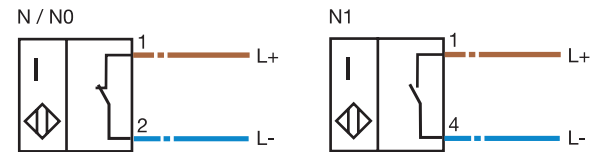
## 2, 3, 4-wire



## AC/DC, AC



## NAMUR

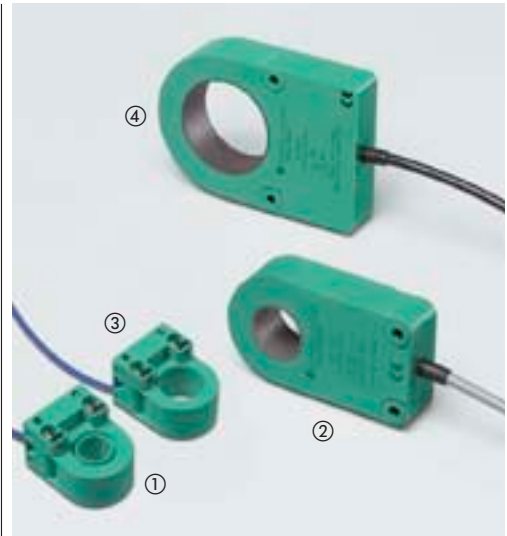


# INDUCTIVE SENSORS SLOT AND RING TYPE

## Inductive sensors slot and ring type



SB/SJ/SC 2 ... 30



RJ/RC 10 ... 43

Series:

### Electrical Version

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

Inner diameter	Part reference	Figure / Footnote	
		Figure	Footnote
21	RJ21-E2	2	
43	RJ43-E2	4	
10	RC10-14-N0	1	1)
15	RC15-14-N0	3	1)
21	RJ21-N	2	1)
43	RJ43-N	4	1)

Footnotes: 1) Without LED

Other electrical versions on demand



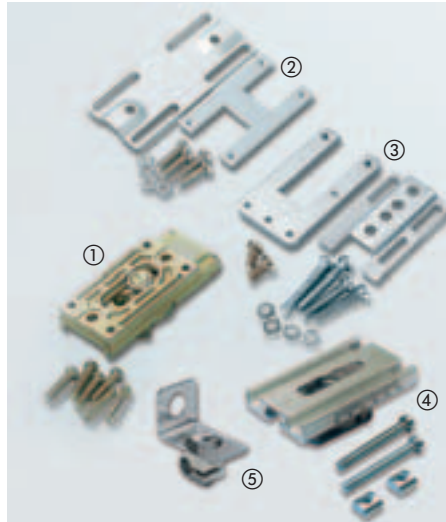
Mounting clamps

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	Figure
MH 04-2681	1
MH 04-2057	2
MH 04-3742	3
MH 02-L	4
OMH-04	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

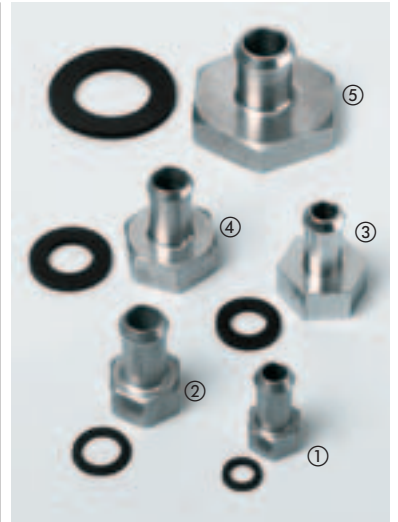
Mounting bracket for use with VariKont M (... - M1K - ...) series, allowing easy adjustment of the switching point along the x-axis within a range of max. 12 mm.

### 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	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

# Typecode Mating connectors



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

Part reference	Fig.
V1-G	1
V1-W	2
V1-G-2M-PVC (...-PUR)	3
V1-G-5M-PVC (...-PUR)	3
V1-G-E2-2M-PUR	11
V1-G-E2-5M-PUR	11
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)	-

Typecode for mating connectors
<ul style="list-style-type: none"> <li>V1/V1S: M12x1, 4-pole</li> <li>V3/V3S: M8x1, 3-pole</li> <li>V13: M12x1, 3-pole</li> </ul>
<ul style="list-style-type: none"> <li>G: straight</li> <li>W: angled</li> </ul>
<ul style="list-style-type: none"> <li>M: cap nut</li> </ul>
<ul style="list-style-type: none"> <li>E2: with LED</li> <li>N: Cable coating blue for NAMUR sensors</li> </ul>
<ul style="list-style-type: none"> <li>...M: ...meter cable</li> <li>PVC: cable material</li> <li>PUR: cable material</li> </ul>

# Typecode Sensors

Typecode for inductive and capacitive sensors
<ul style="list-style-type: none"> <li>J = Standard</li> <li>B = Basic</li> <li>C = Comfort</li> <li>E = Increased sensing range</li> </ul>
<ul style="list-style-type: none"> <li>N = inductive</li> <li>C = capacitive</li> <li>R = ring (inductive)</li> <li>S = slot (inductive)</li> </ul>
<ul style="list-style-type: none"> <li>B = embeddable</li> <li>N = not emb.</li> </ul>
<ul style="list-style-type: none"> <li>used only for sensors of series „B“, „C“ und „E“</li> </ul>
<ul style="list-style-type: none"> <li>M: VariKont M housing</li> <li>U: VariKont housing</li> <li>V3: Microswitch housing</li> </ul>
<ul style="list-style-type: none"> <li>L2: VariKont L housing with double-LED</li> <li>F: rectangular and flat housing</li> </ul>
<ul style="list-style-type: none"> <li>Diameter in mm</li> <li>G = Gewinde</li> <li>K = Plastic</li> <li>M = Metal</li> </ul>
<ul style="list-style-type: none"> <li>Cylindrical type length</li> </ul>
<ul style="list-style-type: none"> <li>W: 2-wire, AC, NC or NO</li> <li>W0: 2-wire, AC, NC</li> <li>WS: 2-wire, AC, NO</li> <li>ZO: 2-wire, DC, NO</li> <li>Z1: 2-wire, DC, NC</li> <li>Z2: 2-wire, DC, NO/NC</li> <li>Z4: 2-wire, DC, NO</li> <li>W: AC, 3-wire, NC+NO, operating mode programmable</li> </ul>
<ul style="list-style-type: none"> <li>Special types</li> <li>V13: M12x1-plug for AC-Sensors</li> <li>V3: M8x1-plug for DC-Sensors</li> <li>V1: M12x1-plug</li> <li>Plug connector</li> </ul>
<ul style="list-style-type: none"> <li>Electrical output</li> <li>N, NO: NAMUR, NC</li> <li>U0: 2-wire, AC/DC, NC</li> <li>US: 2-wire, AC/DC, NO</li> </ul>
<ul style="list-style-type: none"> <li>Other electrical versions on demand</li> </ul>

## Sensor tester



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



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 CATALOG SENSOR FOR FACTORY AUTOMATION YOU WILL FIND:

- Position indicators
- Analog 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



# FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements-wherever you need us.

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