FACTORY AUTOMATION

Inductive and capacitive

Sensors – Overview

PEPPERL+FUCHS

Sensor tester

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.

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

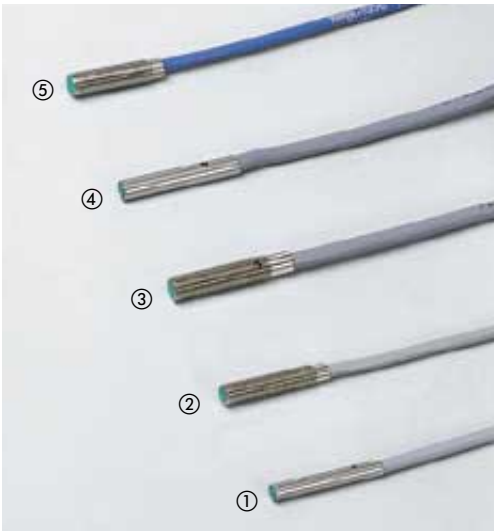
Notes

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
DC 3-Wire E2 = pnp Normally Open E3 = pnp Normally Closed (on demand) 10 V DC ... 60 V DC CJ ...	4	CJ4-12GM-E2	1	1) 2)				
	8	CJ8-18GM-E2	2	1) 2)				
	8	CJ8-18GM-E2-V1	–	1) 2)				
	10	CJ10-30GM-E2	3	1) 4)				
	10	CJ10-30GM-E2-V1	4	1) 4)				
10 V DC ... 30 V DC CB ... and CC ...					2	CBN2-F46-E2	4	
					2	CCN2-F46A-E2	5	
					5	CBN5-F46-E2	4	
					5	CCN5-F46A-E2	5	
DC 4-Wire A2 = pnp, antivalent Normally Open and Normally Closed 10 V DC ... 60 V DC	10	CJ10-30GM-A2	3	1) 4)	15	CJ15+U1+A2	3	1) 2)
	10	CJ10-30GM-A2-V1	4	1) 4)	40	CJ40-FP-A2-P1	2	
AC 2-/3-Wire WS = Normally Open (2-wire) WÖ = Normally Closed (2-wire) W3 = Normally Open or Normally Closed (3-wire) 20-250 V AC	10	CJ10-30GM-WS	6	1) 4)	15	CJ15+U1+W	1	1)
	10	CJ10-30GM-WÖ	5	1) 4)	40	CJ40-FP-W-P1	2	1)
NAMUR/EN 60947-5-6 **nominal voltage** **8 V DC**	1	CJ1-12GK-N	–		2	CBN2-F46-N1	4	
	2	CJ2-18GK-N	–		5	CBN5-F46-N1	4	
	4	CJ4-12GK-N	–		5	CCN5-F46A-N1	5	
	6	CJ6-18GK-N	–		10	CBN10-F46-N1	4	
	10	CJ10-30GM-N-Z10	7	1) 3)	10	CCN10-F46A-N1	5	

Foot-notes: 1) Adjustable with potentiometer 2) Voltage range 10 V DC ... 30 V DC 3) For zone 10 with BVS approval 4) Solid plastic housing on demand

Inductive sensors cylindrical



Series:	... 3, ... 4GM, ... 5GM	... 6,5, ... 8GM
Mounting:	embeddable	embeddable

Electrical Version	Sensing range	Part Reference	Figure	Foot-note	Sensing range	Part Reference	Figure	Foot-note
DC 2-Wire Z/Z0 = Normally Open Z1 = Normally Closed Z2 = Normally Open or Normally Closed 10 V DC ... 30 V DC					1.5	NBB1,5-8GM40-Z0	7	
					1.5	NBB1,5-8GM50-Z0-V3	9	
DC 3-Wire E2 = pnp Normally Open E3 = pnp Normally Closed (on demand) 10 V DC ... 60 V DC NJ ...	0.6	NJ0,6-3-22-E2	1	1)	1.5	NJ1,5-8GM40-E2-V3	9	1)
	0.6	NJ0,6-4GM22-E2	2	1)	1.5	NJ1,5-8GM40-E2-V1	14	1)
					1.5	NJ1,5-8GM40-E2	7	1)
					1.5	NJ1,5-6,5-40-E2-V3	11	1)
					1.5	NJ1,5-6,5-40-E2	8	1)
10 V DC ... 30 V DC NBB .../NBN ...	0.8	NBB0,8-4M25-E2	4					
	0.8	NBB0,8-5GM25-E2	3		1.5	NBB1,5-6,5M20-E2-V3	12	
	0.8	NBB0,8-5GM25-E2-V3	–		1.5	NBB1,5-8GM20-E2-V3	-	
					1.5	NBB1,5-8GM40-E2-V1	13	
					1.5	NBB1,5-8GM50-E2-V3	15	
10 V DC ... 30 V DC NEB increased sensing range					3	NEB3-8GM45-E2	6	
					4	NEB3-8GM45-E2-V3	15	
DC 4-Wire A2 = pnp, antivalent Normally Open and Normally Closed					1.5	NBB1,5-8GM60-A2	5	
					1.5	NBB1,5-8GM50-A2-V1	13	
AC 2-/3-Wire U = AC/DC WS = Normally Open (2-wire) WÖ = Normally Closed (2-wire) W4 = Normally Open and Normally Closed (4-wire) 20 V AC ... 250 V AC					1.5	NJ1,5-8GM40-WS	6	
					1.5	NJ1,5-8GM40-WÖ	6	
NAMUR/EN 60947-5-6 **nominal voltage** **8 V DC**	0.8	NJ0,8-5GM-N	5	2)	1.5	NJ1,5-6,5-N	1	2)
					1.5	NJ1,5-8GM-N	3	2)
					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

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

embeddable and not embeddable

Sensing range	Part Reference	Figure	Foot-note
2	NJ2-8GM40-E2-V3	5	1)
2	NJ2-8GM40-E2-V1	4	1)
2	NJ2-8GM40-E2	1	1)
2	NJ2-6,5-40-E2-V3	–	1)
2	NJ2-6,5-40-E2	–	1)
2	NBB2-8GM50-E2	2	2)
2	NBB2-8GM40-E2-V1	3	2)
2	NBB2-8GM25-E2-V3	–	2)
2	NBB2-8GM30-E2	–	2)
3	NBN3-8GM25-E2-V3	–	1)
3	NBN3-8GM30-E2	–	1)
6	NEN6-8GM45-E2-V1	4	1)
2	NBN2-8GM60-A2	1	1)
2	NBN2-8GM50-A2-V1	4	1)

... 12GM

embeddable

Sensing range	Part Reference	Figure	Foot-note
2	NBB2-12GM40-Z0	10	
2	NBB2-12GM40-Z3-V1	4	
2	NJ2-12GM40-E2-V1	4	
2	NJ2-12GM40-E2	11	
4	NBB4-12GM50-E2-V1	3	
4	NBB4-12GM50-E2	9	
2	NBB2-12GM50-E2-V1	3	
2	NBB2-12GM50-E2	9	
4	NBB4-12GM30-E2-V1	–	
4	NBB4-12GM30-E2	–	
6	NEB6-12GM50-E2-V1	8	
6	NEB6-12GM50-E2	2	
2	NBB2-12GM60-A2	2	
2	NBB2-12GM60-A2-V1	5	
2	NJ2-12GM50-WS	11	
2	NJ2-12GM50-WS-V13	4	
2	NJ2-12GM50-WÖ	11	
2	NJ2-12GM50-WÖ-V13	4	
2	NJ2-12GM-N	1	2)
2	NJ2-12GM-N-V1	7	2)
2	NCB2-12GM35-N0	1	
2	NCB2-12GM35-N0-V1	7	

Footnotes: 1) not embeddable 2) embeddable

... 12GM

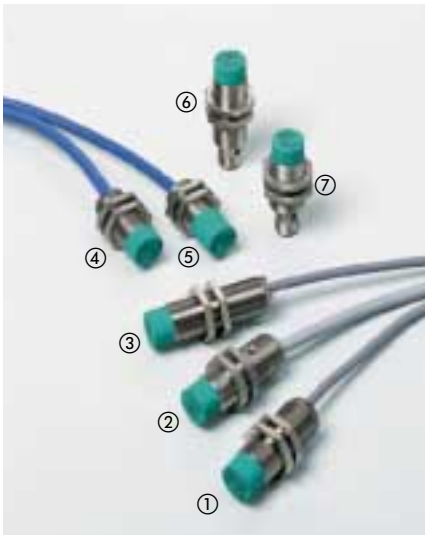
not embeddable

Sensing range	Part Reference	Figure	Foot-note
4	NBN4-12GM40-Z0	3	
4	NBN4-12GM40-Z3-V1	11	
4	NJ4-12GM40-E2-V1	11	
4	NJ4-12GM40-E2	3	
4	NBN4-12GM50-E2-V1	12	
4	NBN4-12GM50-E2	5	
8	NBN8-12GM30-E2-V1		
8	NBN8-12GM30-E2		
10	NEN10-12GM50-E2-V1	12	
4	NBN4-12GM60-A2	5	
4	NBN4-12GM60-A2-V1	10	
4	NJ4-12GM50-WS	2	
4	NJ4-12GM50-WS-V13	8	
4	NJ4-12GM50-WÖ	4	
4	NJ4-12GM50-WÖ-V13	8	
4	NJ4-12GM-N	1	2)
4	NJ4-12GM-N-V1	11	2)
4	NCN4-12GM35-N0	1	
4	NCN4-12GM35-N0-V1	12	

... 18GM

embeddable

Sensing range	Part Reference	Figure	Foot-note
5	NBB5-18GM40-Z0	3	
5	NBB5-18GM40-Z3-V1	8	
5	NJ5-18GM50-E2	10	
5	NJ5-18GM50-E2-V1	6	
5	NJ5-18GM20-E2-V1	7	
5	NBB5-18GM50-E2	2	
5	NBB5-18GM50-E2-V1	8	
8	NBB8-18GM50-E2	2	
8	NBB8-18GM50-E2-V1	8	
8	NBB8-18GM30-E2-V1	–	
8	NBB8-18GM30-E2	–	
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-WÖ	3	
5	NJ5-18GM-N	–	2)
5	NJ5-18GM-N-V1	–	2)
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-Z3-V1	–	
8	NJ8-18GM50-E2	2	
8	NJ8-18GM50-E2-V1	6	
8	NBN8-18GM50-E2	1	
8	NBN8-18GM50-E2-V1	6	
12	NBN12-18GM50-E2	1	
12	NBN12-18GM50-E2-V1	6	
20	NEN20-18GM50-E2-V1	6	
8	NJ8-18GM50-A2	2	
8	NJ8-18GM50-A2-V1	–	
8	NBN8-18GM60-A2	1	
8	NBN8-18GM60-A2-V1	6	
8	NBN8-18GM60-WS	3	
8	NBN8-18GM60-WÖ	3	
8	NJ8-18GM-N	5	2)
8	NJ8-18GM-N-V1	–	2)
8	NCN8-18GM40-N0	4	
8	NCN8-18GM40-N0-V1	7	

... 30GM

embeddable

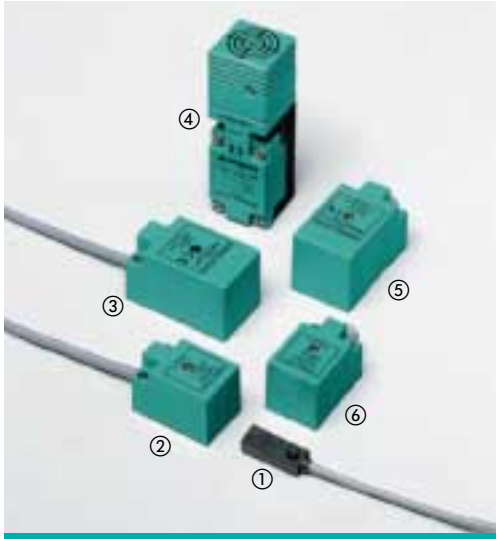
Sensing range	Part Reference	Figure	Foot-note
10	NBB10-30GM40-Z0	10	
10	NBB10-30GM40-Z3-V1	4	
10	NJ10-30GM50-E2	8	
10	NJ10-30GM50-E2-V1	4	
10	NBB10-30GM50-E2	11	
10	NBB10-30GM50-E2-V1	3	
15	NBB15-30GM50-E2	10	
15	NBB15-30GM50-E2-V1	3	
15	NBB15-30GM30-E2	–	
15	NBB15-30GM30-E2-V1	–	
22	NEB22-30GM60-E2	9	
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	
10	NBB10-30GKK-WS	6	
10	NBB10-30GM60-WS	9	
10	NBB10-30GKK-WÖ	6	
10	NBB10-30GM60-WÖ	9	
10	NJ10-30GM-N	1	2)
10	NJ10-30GM-N-V1	7	2)
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-Z3-V1	5	
15	NJ15-30GM50-E2	3	
15	NJ15-30GM50-E2-V1	7	
15	NBN15-30GM50-E2	4	
15	NBN15-30GM50-E2-V1	5	
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	
15	NBN15-30GM60-A2	2	
15	NBN15-30GM60-A2-V1	5	
15	NBN15-30GM60-WS	2	
15	NBN15-30GM60-WÖ	2	
15	NJ15-30GM-N	6	2)
15	NCN15-30GM40-N0	6	
15	NCN15-30GM40-N0-V1	1	

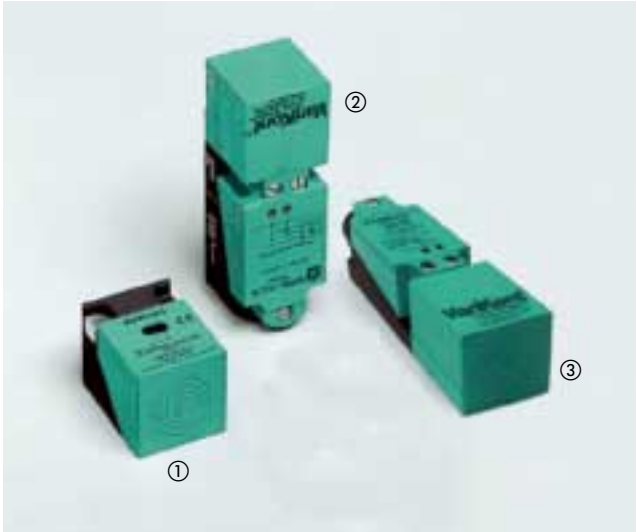
Inductive sensors rectangular and flat housing



Series:	... F, ... F1, ... F9, ... F17, ... F41, ... V3	... F10, ... F11, ... F29, VariKont M
Mounting:	embeddable	not embeddable

Electrical Version	Sensing range	Part Reference	Figure	Foot-note	Sensing range	Part Reference	Figure	Foot-note
DC 2-Wire Z/Z0 = Normally Open Z1 = Normally Closed Z2 = Normally Open or Normally Closed 10 V DC ... 30 V DC	3	NBB3-V3-Z4	9		15	NCN15-M1K-Z2	4	
DC 3-Wire E2 = Normally Open E3 = Normally Closed (on demand) 10 V DC ... 60 V DC NJ .../NCB .../NCN ... 10 V DC ... 30 V DC NBB .../NBN ...	6	NJ6-F-E2	–					
	2	NJ2-F1-E2	6		15	NCN15-M1K-E5	4	
	2	NJ2-F1-E2-V3	5					
	10	NCB10-F17-E2	2					
	5	NBB5-F33-E2	–					
	1.5	NBB1,5-F41-E2	11		4	NBN4-F29-E2	1	
	1.5	NBB1,5-F41-E2-V3	10		10	NBN10-F10-E2	2	
	1.5	NBB1,5-F41A-E2	–	2)	10	NBN10-F10-E2-V1	6	
	1.5	NBB1,5-F41A-E2-V3	–	2)	15	NBN15-F11-E2	3	
	2	NBB2-V3-E2	9		15	NBN15-F11-E2-V1	5	
	2	NBB2-V3-E2-V5	1					
	5	NBB5-F9-E2	8					
	5	NBB5-F9-E2-V3	7					
	5	NBB5-F33M-E2	3					
DC 4-Draht A2 = pnp, antivalent Normally Closed and Normally Open	6	NJ6-F-A2	–		15	NJ15-M1K-A2	4	
AC 2-/3-Draht U = AC/DC WS = Normally Open (2-wire) WÖ = Normally Closed (2-wire) W3 = Normally Open or Normally Closed (3-wire) 20-250 VAC								
NAMUR/EN 60947-5-6 **nominal voltage** **8 V DC**	2	NCB2-F1-N0	6	3)	15	NCN15-M1K-N0	4	
	2	NJ2-V3-N	9	3)				
	2	NJ2-V3-N-V5	5	3)				
	6	NJ6-F-N	–	3)				
	7	FJ7-N	4	3)				

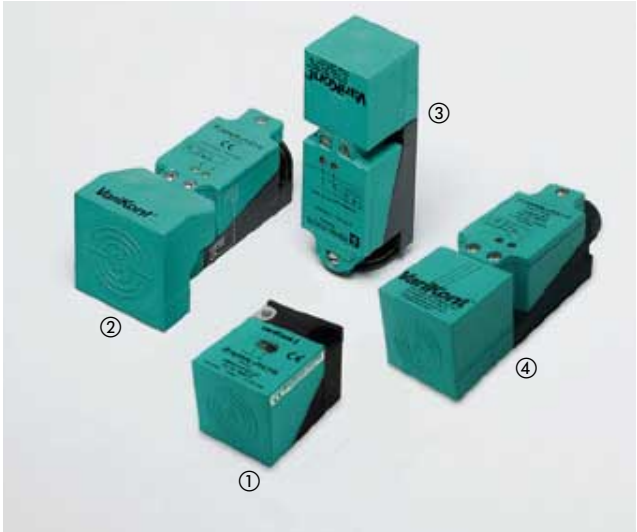
Foot-notes: 1) with Quickon connection technique, 2) Active face centered, for the rest see ...F41... 3) Without LED



... 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	NJ40+U1+E2	2	
40	NCN40+U1+E2	3	
40	NJ40+U10+E2	2	
30	NBN30-L2-E2-V1	1	
40	NBN40-L2-E2-V1	1	
30	NJ30+U1+A2	3	
40	NJ40+U1+A2	2	
30	NBN30-L2-A2-V1	1	
40	NBN40-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

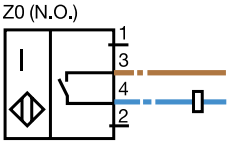
Sensing range	Part Reference	Figure	Foot-note
50	NJ50-FP-Z-P1	2	1)
50	NJ50-FP-E2-P1	2	1)
100	NCN100-F23-E2-V1	–	1)
40	NCB40-FP-A2-P1	2	2)
50	NCN50-FP-A2-P1	2	1)
50	NCB50-FP-A2-P1	1	2)
40	NJ40-FP-A2-B1-P1	1	2)
50	NJ50-FP-A2-P1	2	1)
40	NJ40-FP-W-B1-P1	1	2)
50	NJ50-FP-W-P1	2	1)
40	NCB40-FP-N0-P1	1	2)
50	NJ50-FP-N-P1	2	1)
50	NCN50-FP-N0-P1	2	1)

Foot-notes: 1) not embeddable 2) embeddable

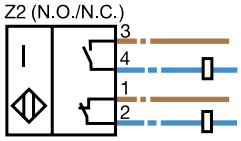
electrical output

2, 3, 4-wire

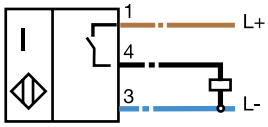
Z0 (N.O.)



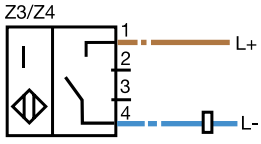
Z2 (N.O./N.C.)



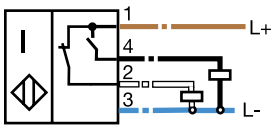
E2



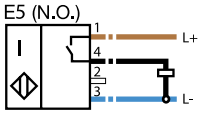
Z3/Z4



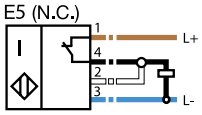
A2



E5 (N.O.)

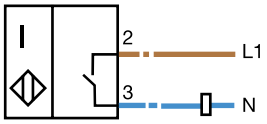


E5 (N.C.)

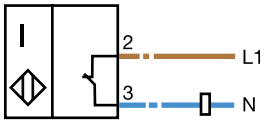


AC/DC, AC

WS



WO



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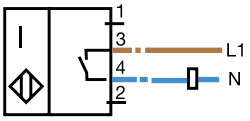

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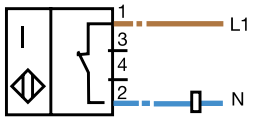
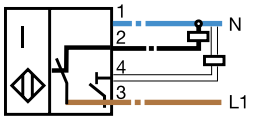
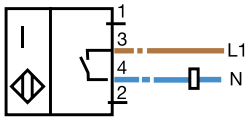


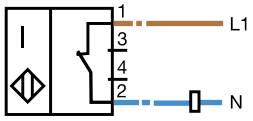
W4



U

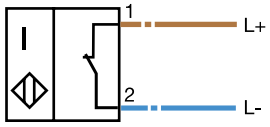


U

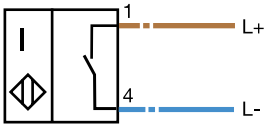


NAMUR

N / N0



N1



Inductive sensors slot and ring type

Series:	SJ/SC 2 ... 30				RJ/RC 10 ... 43			
Electrical version	Entry depth	**Part Reference**	Figure		Inner diameter	**Part Reference**	Figure	
DC	5 ... 7	SB2-Z0	4					
DC 3-Wire E2 = Normally Closed E3 = Normally Open (on demand) 10 V DC ... 60 V DC SJ .../RJ ...	5 ... 7	SBB3,5-E2	1		21	RJ21-E2	2	
	13 ... 16	SJ10-E2	5		43	RJ43-E2	4	
	17 ... 19	SJ15-E2	6					
DC 4-Wire A2 = pnp, antivalent Normally Closed and Normally Open	17 ... 20	SJ15-A2	6					
	27 ... 31	SJ30-A2	7					
AC 2-/3-Wire WS = Normally Open (2-wire) WÖ = Normally Closed (2-wire) W3 = Normally Open or Normally Closed (3-wire) 20-250 VAC	18 ... 20	SJ15-WS	6					
	27 ... 31	SJ30-WS	7					
NAMUR/EN 60947-5-6 **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

Mounting accessories

Mounting clamps

Part Reference

	Figure
BF 4	6
BF 5	1
BF 6,5	2
BF 8	7
BF 12	3
BF 18	5
BF 30	4
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
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

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

SM...
These cable protectors are available for 8 mm, 12 mm, 14 mm, 18 mm and 30 mm cylindrical sensors.

Cable connectors

Typecode Mating connectors

Typecode Sensors

Mating connectors

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

Part reference		Figure
	V1-G	1
	V1-W	2
	V1-G-Q2	3
	V1-G-2M-PVC (...-PUR)	4
	V1-G-5M-PVC (...-PUR)	4
	V1-G-N-5M-PUR	-
	V1-W-2M-PVC (...-PUR)	5
	V1-W-5M-PVC (...-PUR)	5
	V1-W-E2-2M-PUR	6
	V1-W-E2-5M-PUR	6
as plug:	V1S-...	-
as ext. lead:	...-V1-G (-V1-W)	-
	V3-GM	7
	V3-WM	8
	V3-GM-2M-PUR	9
	V3-GM-5M-PUR	9
	V3-WM-E2-2M-PUR	10
	V3-WM-E2-5M-PUR	10
as plug:	V3S-...	-
as ext. lead:	...-V3-G (-V3-W)	-

Typecode for mating connectors

□ — □ □ — □ — □ — □

- **PVC: cable material**
- **PUR: cable material**
- **...M: ...meter cable**
- **E2: with LED**
- **N: Cable coating blue for NAMUR sensors**
- **M: cap nut**
- **G: straight**
- **W: angled**
- **V1: M12x1, 4-pole**
- **V3: M8x1, 3-pole**
- **V13: M12x1, 3-pole**

Typecode for inductive und capacitive sensors

□ □ □ □ — □ □ □ □ — □ — □

- **Cilyndical type length**
- **M** = Metal
- **K** = Plastic
- **G** = threaded
- **Diameter in mm**
- **F:** rectangular and flat housing
- **L1:** VariKont L housing with 4-ways-LED
- **L2:** VariKont L housing with double-LED
- **M:** VariKont M housing
- **U:** VariKont housing
- **V3:** Microswitch housing
- **Sensing range in mm**
- **internal diameter**
- **slot width**
- **Mounting** (used only for sensors of series „B“, „C“ und „E“)
- **B** = embeddable
- **N** = not embeddable
- **Series**
- **J** = Standard
- **B** = Basic
- **C** = Comfort
- **E** = increased sensing range
- **Function principle**
- **N** = inductiv
- **C** = capacitiv
- **R** = ring (inductiv)
- **S** = slot (inductiv)
- **Plug connector**
- **V1:** M12x1-Plug
- **V3:** M8x1-Plug for DC-Sensors
- **V13:** M12x1-Plug for AC-Sensors
- **Special types**
- **Z10:** Zone 10
- **Electrical output**
- **A2:** 4-wire, DC, pnp, NC and NO
- **E2:** 3-wire, DC, pnp, NO
- **N, NO:** NAMUR, NC
- **UÖ:** 2-wire, AC/DC, NC
- **US:** 2-wire, AC/DC, NO
- **W:** 2-wire, AC, NC or NO
- **WÖ:** 2-wire, AC, NC
- **WS:** 2-wire, AC, NO
- **ZO:** 2-wire, DC, NO
- **W3:** 3-wire, AC, NC/NO operating mode programmable

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