Limit switch

Nominal size DN 10–100

Features

- high-quality materials
- reliable and low-maintenance

Attention

- Limit switch design 1:
  for diaphragm valves MV 308 and MV 309
  for diaphragm valve MV 310 for nominal size DN 10–50
- Limit switch design 2:
  for diaphragm valves MV 310 for nominal size DN 65–100

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Limit switch design 1:
Nominal size DN 10–50

Limit switch design 2:
Nominal size DN 65–100

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Limit switch

Application

- Limit switches for signaling »Open/Closed«

		Limit switch	
Diaphragm valve	**Nominal size**	**Design 1**	**Design 2**
MV 308	DN 12–15	X	
MV 309	DN 15–32	X	
MV 310	DN 15–50	X	
	DN 65–100		X

Housing

- Limit switch design 1: PVC-U
- Limit switch design 2: PP

Bonnet

- Limit switch design 1: PVC-U-transparent
- Limit switch design 2: PC (Makrolon)

Sealing element

- EPDM

Screws

- stainless steel (1.4301)

Electrical connection

- Cable connection, type 1: PG 16
- Cable connection, type 2: PG 13.5

Protection class

- IP 65

Options

Limit switches:

- Micro switch VCSP
- Inductive proximity switch NJ2-V3-N (NAMUR)
- Inductive proximity switch NBB2-V3-E2 (PNP)

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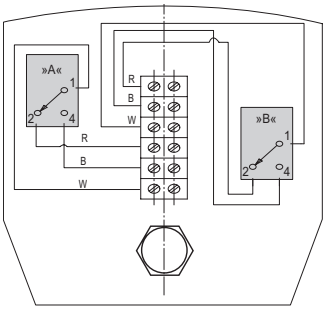
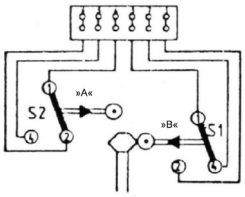
Limit switch

Technical data

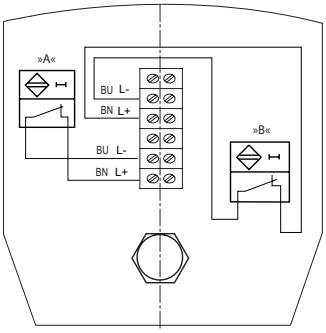
Circuit diagram - Micro switch VCSP

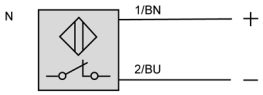




Switch type	VCSP	
	for limit switch design 1:	for limit switch design 2:
Type	–	024.85
Operating voltage	125–250 V AC	250 V AC
Maximum current	10 A (250 V AC); 3 A (24 V DC)	6 A
Protection class	IP 44	IP 65
Temperature	-20–60 °C	-20–60 °C

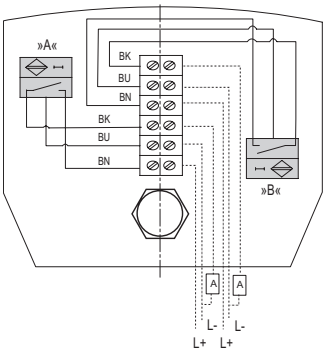
Circuit diagram – Inductive proximity switch NJ2-V3-N (2-wire, NAMUR)

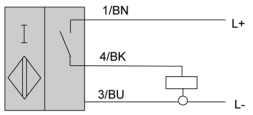




Switch type	NJ2-V3-N
Type	024.86
Switching function	NAMUR
Nominal voltage	8.2 V
Current consumption	1–3 mA
Switching frequency	0–1000 Hz
Protection class	IP 65
Temperature	-20–60 °C
ATEX marking, switch	II 1G Ex ia IIC T6...T1 Ga

Circuit diagram – Inductive proximity switch NBB2-V3-E2 (3-wire, PNP)





Switch type	NBB2-V3-E2
Type	024.87
Switching function	PNP
Operating voltage	24V DC (10–30V)
Output current max.	100 mA
Switching frequency	0–1000 Hz
Idle current	‹ 15 mA
Display	yellow LED
Protection class	IP 65
Temperature	-20–60 °C

	Description
A	Connection »OPEN«
B	Connection »CLOSED«

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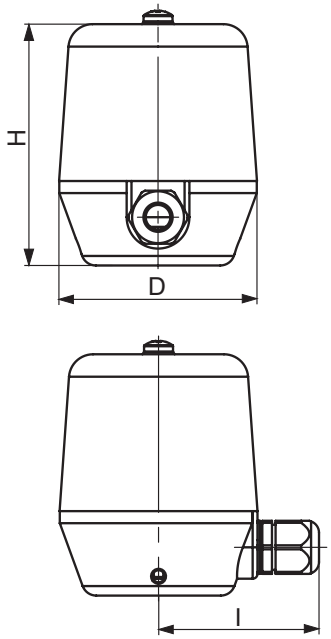
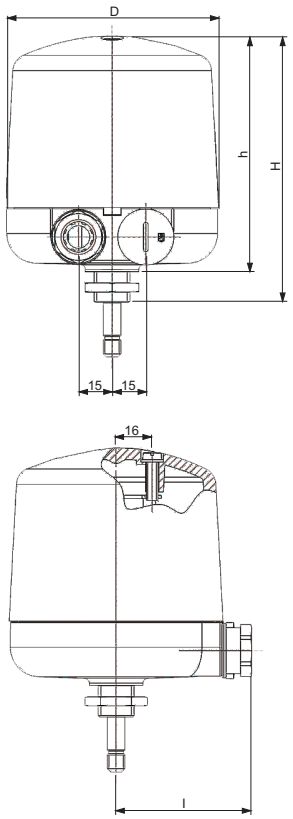
Limit switch design 1:



Type	VCSP	NJ2-V3-N	NBB2-V3-E2
D	82.0	82.0	82.0
H	100.0	100.0	100.0
I	64.0	64.0	64.0

all dimensions in mm / * dimensions in inch

Limit switch design 2:



Type	VCSP	NJ2-V3-N	NBB2-V3-E2
D	95.0	95.0	95.0
h	106.0	106.0	106.0
H	120.0	120.0	120.0
I	60.0	60.0	60.0

all dimensions in mm / * dimensions in inch

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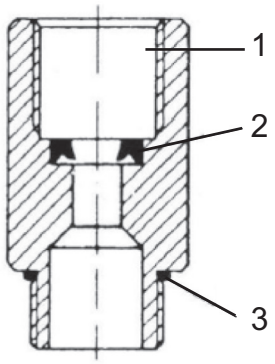
Accessories for design 2:

Adapter



Position	Designation
1	Adapter
2	Grooved ring
3	O-ring

Attention

- For retrofitting onto NO valves, fit the adapter as an accessory.

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