

Valve connector system MSVS



Valve connector for field wiring with flip-top

General:

The removable electronic insert can be turned in 90° steps.

10 and 11 mm contact spacing in 180° steps.

Form A

Contact form 18 mm
DIN 43650 (ISO 4400)



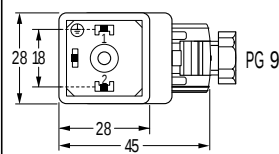
Form B

Contact form 11 mm
Industry standard

Form B

Contact form 10 mm
DIN 43650 (ISO 6952)

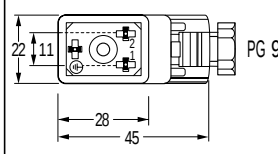
Circuit diagram



Height 40 mm

metric

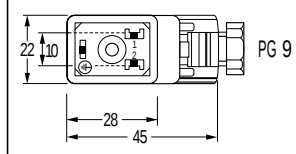
PG 9



Height 40 mm

metric

PG 9



Height 40 mm

metric

PG 9

Ordering data

Supply voltage	Network	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
24 V AC/DC	LED + Z-diode	3129220	3129020	3129920	3129720	3129520	3129420
	LED + RC	3129240	3129040	3129940	3129740	3129540	3129440
110 V AC/DC	LED + VDR	3129222	3129022	3129922	3129722	3129522	3129422
	LED + RC	¹⁾ 3129245	¹⁾ 3129045				
230 V AC/DC	LED + VDR	3129225	3129025	3129925	3129725	3129525	3129425
	LED + RC	¹⁾ 3129245	¹⁾ 3129045	3129945	3129745	3129545	3129445
0...230 V AC/DC	no electronics	29890	29090	29990	29790	29590	29490

Technical data

Network

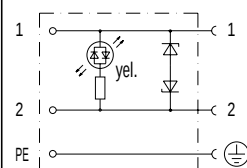
24 V AC/DC	LED + Z-diode	LED: yellow (approx. 12 mA), Suppression: Z-diodes, Switch off spike: ≤ 55 V, Delay: ≤ 20 ms, Hold on: ≤ 100 W (VA)
	LED + RC	LED: yellow (approx. 12 mA), Suppression: RC-Network, Switch off spike: ≤ 100 V, Delay: ≤ 10 ms, Hold on: ≤ 50 W (VA)
110 V AC/DC	LED + VDR	LED: yellow (approx. 12 mA), Suppression: Varistor, Switch off spike: ≤ 250 V, Delay: ≤ 10 ms, Hold on: ≤ 100 W (VA)
	LED + RC	LED: yellow (approx. 12 mA), Suppression: RC-Network, Switch off spike: ≤ 400 V, Delay: ≤ 10 ms, Hold on: ≤ 50 W (VA)
230 V AC/DC	LED + VDR	LED: yellow (approx. 12 mA), Suppression: Varistor, Switch off spike: ≤ 450 V, Delay: ≤ 15 ms, Hold on: ≤ 100 W (VA)
	LED + RC	LED: yellow (approx. 12 mA), Suppression: RC-Network, Switch off spike: ≤ 450 V, Delay: ≤ 15 ms, Hold on: ≤ 50 W (VA)
0...230 V AC/DC	no electronics	hold on: ≤ 920 W (VA), max. switching current 10 A

Technical data

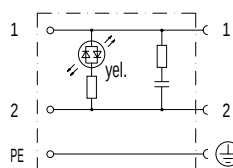
Housing

Compression gland	PG 9; (PG 11 and NPT 1/2" for form A on request); M16 x 1,5 mm to DIN EN 50262
Clamping range PG 9-gland/M16x1,5mm	outer-Ø 6...8 mm/5...10 mm
Terminals	single core 4 mm ² , stranded 2,5 mm ² , with ferrules 1,5 mm ²
Plug color	black housing, transparent flip-top
Material	flame retardant plastic
Protection	IP 65 when plugged and screwed down (EN 60529), with gland
Temperature range	-20...+60 °C

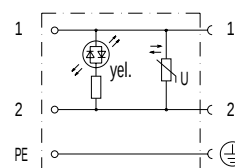
Circuit diagram



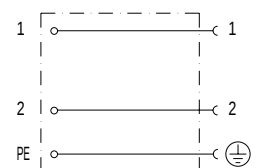
LED + Z-diode



LED + RC



LED + VDR



no electronics

Notes

¹⁾ For 110 V and 230 V AC/DC (Current usage 3 mA resp. 6 mA). A flat gasket is supplied.
Accessories can be found on page 1.4.7

Valve connector for field wiring with flip-top

- for pressure switches
or level monitors
- with switching amplifier
- with rectifier

General:

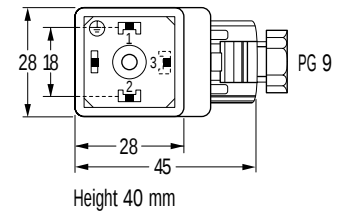
The removable electronic insert can be turned in 90° steps.

Form A

Contact form 18 mm
DIN 43650 (ISO 4400)



Circuit diagram



Circuit diagram		for pressure switches		with switching amplifier		with bridge rectifier			
		valid for Art.-No. 29300							
metric		PG 9		metric		PG 9			
Ordering data		Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.		
Supply voltage	Version								
24...230 V AC/DC	2 LED red/gn	¹⁾ 29800	¹⁾ 29300						
24...230 V AC/DC	2 LED red/gn	¹⁾ 29801	¹⁾ 29301						
24...230 V AC/DC	1 LED yellow	¹⁾ 29805	¹⁾ 29305						
24 V DC	2 LED yel./gn	²⁾ 29836	²⁾ 296036						
0...230 V AC/DC	no electronics	³⁾ 29891	³⁾ 29091						
24 V DC				3129250	3129150				
24...230 V AC/DC	no electronics					3129260	3129060		
Technical data plug connector									
Current usage		¹⁾ ≤ 40 mA at 24 V ²⁾ ≤ 20 mA		≤ 3 mA (control current)		≤ 20 mA (LED)			
Switching current/Supply current		≤ 4 A		≤ 2 A (short-circuit protected)		≤ 1,5 A			
Valve hold on		—		≤ 60 W		≤ 345 W (VA)			
Control voltage		—		ON: 12...42 V DC; OFF: ≤ 8 V DC (IN)		—			
Switching frequency		—		≤ 400 Hz		—			
Switch off spike		—		≤ 1 V		≤ 3 V			
Technical data Housing									
Compression gland		PG 9; (PG 11 and NPT 1/2" for form A on request); M16 x 1,5 mm to DIN EN 50262							
Clamping range PG 9-gland/M16x1,5mm		outer-Ø 6...8 mm/5...10 mm							
Terminals		single core 4 mm ² , stranded 2,5 mm ² , with ferrules 1,5 mm ²							
Plug color		black housing, transparent flip-top							
Material		flame retardant plastic							
Protection		IP 65 when plugged and screwed down (EN 60529), with gland							
Temperature range		-20...+60 °C							
Circuit diagram									
		valid for Art.-No. 29301		valid for Art.-No. 29305		valid for Art.-No. 296036		valid for Art.-No. 29091	
metric		PG 9		metric		PG 9		metric	
Notes		A flat gasket is supplied. Accessories can be found on page 1.4.7							
		³⁾ with a black flip-top part-No. 29092							