

Suppression Technology - Valve Suppressors - special function

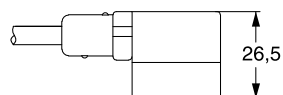
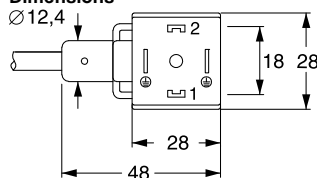
Energy reducer, design A (18 mm), PUR cable

Energy reduction approx. 50 %, protection device, LED status indication

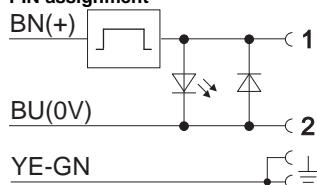
0° – 180° field installation, open cable end



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Energy reducer				
Length of connecting lead (M)	2.5	709709.0250	LER-A-9709 2,5m PUR DC 24 V	10
	5.0	709709.0500	LER-A-9709 5,0m PUR DC 24 V	10
	10.0	709709.1000	LER-A-9709 10,0m PUR DC 24 V	10

Technical data

Function type	Energy reducer		
Protection device	Free-wheeling diode		
Nominal voltage	DC 24 V		
Current Consumption per LED	24 mA		
Shut-off points	≤1 V		
Switching frequency	max. 2 Hz		
Holding Capacity	Reduction factor approx. 50 %		
Type of connecting lead	PUR black 3 x 0.5 mm ²		
Length of connecting lead (M)	2.5	5	10
Connecting lead	∅ 5.0 ± 0.15 mm		

General

Form	Design A, contact clearance 18 mm		
Status Indication	LED yellow		
Amperage range	≤2 A		
Conductor insulation	PVC		
Coil Current max.	-		
Conductor labelling	-		
Housing material	TPU transparent ¹⁾		
Protection class	IP 67		
Field installation	Breakaway torque 0.4 Nm		
Operation temperature range	Male: -25 °C – 60 °C, cable: fixed -40 °C– 80 °C, moving -20 °C – 80 °C		
Storage temperature range	-40 °C – 90 °C		
Dimensions (w x h x d)	22.0 x 26.5 x 50.0 mm		
Weight (kg/piece)	0.13	0.23	0.53
Standards	EN 175301-803 (DIN 43 650), ISO 4400		
Approvals	-		

Accessories	Colour	Article number	Type	PU
Tag holder 7x20 mm	white	760968	BZT-0720	100
Protective pipes:				
-PA	black	271142	CX 12 PA	50
-PVC with hard PVC coil	grey	270401	CF 12 EL	30
-PVC with steel braid		270011	CF 13 S	50
PUR with coil		270411	CF PUR 12 EL	22
Designation sleeve	transparent	499995		500
Tag holder 4x23 mm for 499995		499988		200

Comments

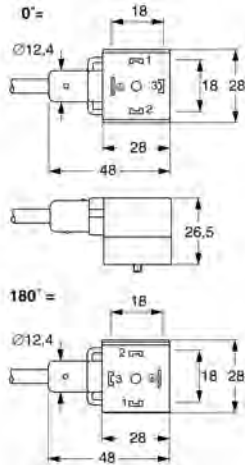
¹⁾ Excellent chemical and oil resistance. The material resistance must be checked based on the application for use with aggressive media!

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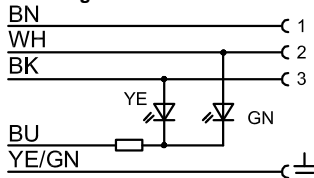
Design A (18 mm) PUR termination cable Pressure switch / fill level monitor



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
0°, PE at the cable entry point				
Nominal voltage	DC 24 V	709772	LDS-A-9772 5,0m PUR DC 24 V	10
	DC 24 V	709771	LDS-A-9771 10,0m PUR DC 24 V	10
180°; PE across from the cable entry point				
Nominal voltage	DC 24 V	709782	LDS-A-9782 5,0m PUR DC 24 V	10
	DC 24 V	709789	LDS-A-9789 10,0m PUR DC 24 V	10

Technical data	709772	709771	709782	709789
Function type	Pressure switch / fill level monitor			
Protection device	-			
Nominal voltage	DC 24 V			
Nominal voltage range	30 V			
Current Consumption per LED	4 mA			
Power	-			
Rise time	-			
Saturated voltage at max. current	-			
Switching thresholds	-			
Accuracy	-			
Control current	-			
Switching current	≤ 4 A			
Switching frequency	-			
Switch-on delay	-			
Switch-off delay	-			
Shut-off points	-			
Rated frequency	-			
Holding Capacity	-			
Type of connecting lead	PUR black/PVC 3 x 0.5 mm ²			
Length of connecting lead (M)	5	10	5	10
Connecting lead	∅ 5.6 + 0.15 mm			
Fittings	-			
Short-circuit protection	-			
General				
Form	Design A, contact clearance 18 mm			
Status Indication	LED yellow + LED green			
Galvanic isolation I/O	-			
Clearance/creep. dist. (control/load side)	-			
Derating	-			
Conductor labelling	colour-coded conductors			
Housing material	TPU transparent ¹⁾			
Protection class	IP 67			
Field installation	Breakaway torque 0.4 Nm			
Operation temperature range	Male: -25 °C – 90 °C, cable: fixed -40 °C– 80 °C, moving -20 °C – 80 °C			
Storage temperature range	-40 °C – 90 °C			
Dimensions (w x h x d)	28.0 x 26.5 x 48.0 mm			
Weight (kg/piece)	0.225	0.530	0.225	0.530
Standards	EN 175301-803 (DIN 43 650), ISO 4400			
Termination	-			
Approvals	-			
Accessories				
Tag holder 7x20 mm	white	760968	BZT-0720	100
Protective pipes:				
-PA	black	271142	CX 12 PA	50
-PVC with hard PVC coil	grey	270401	CF 12 EL	30
-PVC with steel braid		270011	CF 13 S	50
-PUR with Conduflex coil		270411	CF PUR 12 EL	22
Designation sleeve	transparent	499995		500
Tag holder 4x23 mm for 499995		499988		200

Comments

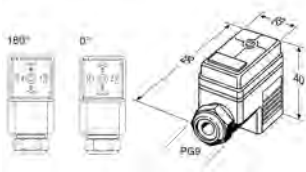
¹⁾ Excellent chemical and oil resistance. The material resistance must be checked based on the application for use with aggressive media!

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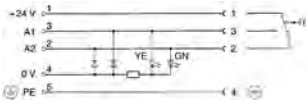
Design A (18 mm) adjustable plug Pressure switch / fill level monitor



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Cable outlet 0°				
Nominal voltage	DC 24 V	707508	LDS-V10-7508L 0° DC 24 V	10
Cable outlet 180°				
Nominal voltage	DC 24 V	707507	LDS-V10-7507R 180° DC 24 V	10
Technical data		707508	707507	
Function type		Pressure switch / function monitor		
Protection device		Diode		
Nominal voltage		DC 24 V		
Nominal voltage range		18 – 30 V		
Current Consumption per LED		16 mA		
Power		–		
Rise time		–		
Saturated voltage at max. current		–		
Switching thresholds		–		
Accuracy		–		
Control current		–		
Switching current		≤ 4 A		
Switching frequency		–		
Switch-on delay		–		
Switch-off delay		–		
Shut-off points		–		
Rated frequency		–		
Holding Capacity		1600 V / 1 A		
Type of connecting lead		–		
Length of connecting lead (M)		–		
Connecting lead		∅ 5–9 mm		
Fittings		PG 9		
Short-circuit protection		–		
General				
Form		Design A, contact clearance 18 mm		
Status Indication		LED yellow + LED green		
Galvanic isolation I/O		–		
Clearance/creep. dist. (control/load side)		–		
Derating		–		
Conductor labelling		–		
Housing material		PA transparent		
Protection class		IP 65		
Field installation		Breakaway torque 0.4 Nm		
Operation temperature range		-25 °C – 60 °C		
Storage temperature range		-25 °C – 80 °C		
Dimensions (w x h x d)		28.0 x 40.0 x 58.0 mm		
Weight (kg/piece)		0.036		
Standards		EN 175301-803 (DIN 43 650), ISO 4400		
Termination		Screw terminal: 0.5–1.5 mm ²		
Approvals		–		
Accessories	Colour	Article number	Type	PU
Tag holder 9x20 mm	white	681315	BZT-0920	100
Comments				

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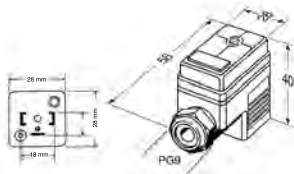
Adjustable male, form A (18 mm)

Switching amplifier with and without galvanic isolation

Ground wire terminator, short-circuit-proof, 0°–180° installation

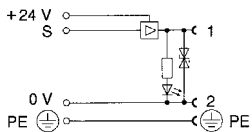


Dimensions

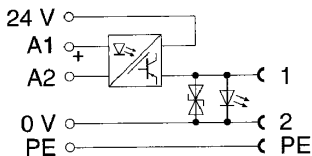


PIN assignment

705509, 706509



707409



Description	Part-No.	Type	PU	
without galvanic isolation				
Nominal voltage	DC 24 V	705509	LVER-V10-5509 DC 24 V	10
	DC 24 V	706509	LVER-V10-6509 DC 24 V	10
with galvanic isolation				
Nominal voltage	DC 24 V	707409	LVER-V10-7409 DC 24 V	10

Technical data	705509	706509	707409
Function type		Switching amplifier	
Protection device		Suppressor diode	
Nominal voltage		DC 24 V	
Nominal voltage range		18 – 30 V	
Current Consumption per LED	21 mA		7 mA
Power		–	
Rise time		–	
Saturated voltage at max. current		–	
Switching thresholds		–	
Accuracy		–	
Control current	10 mA		7 mA
Switching current	0.005A – 2A, short circuit protection		
Switching frequency		max. 20 Hz	
Switch-on delay		<100 µs	
Switch-off delay		<200 µs	
Shut-off points		≤52 V	
Rated frequency		–	
Holding Capacity		100 VA	
Type of connecting lead		–	
Length of connecting lead (M)		–	
Connecting lead		∅ 5–9 mm	
Fittings		PG 9	
Short-circuit protection		yes	

General

Form	Design A, contact clearance 18 mm		
Status Indication	LED yellow		
Galvanic isolation I/O	–		4.5 kV
Clearance/creep. dist. (control/load side)	–		> 5.5 mm
Derating	–		
Conductor labelling	–		
Housing material	PA black / transparent	PA grey / transparent	PA black / transparent
Protection class	IP 65		
Field installation	Breakaway torque 0.4 Nm		
Operation temperature range	-25 °C – 60 °C		
Storage temperature range	-25 °C – 80 °C		
Dimensions (w x h x d)	28.0 x 40.0 x 58.0 mm		
Weight (kg/piece)	0.039		0.044
Standards	EN 175301-803 (DIN 43 650), ISO 4400		
Termination	Screw terminal: 0.5–1.5 mm ²		
Approvals	–		

Accessories	Colour	Article number	Type	PU
Tag holder 9x20 mm	white	681315	BZT-0920	100

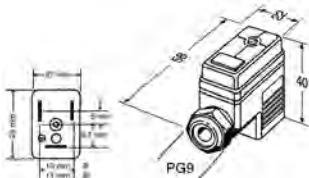
Comments

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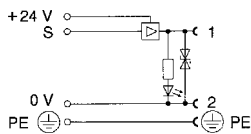
Adjustable connector, design B (10 mm), design BI (11 mm)
Switching amplifier without galvanic isolation, short circuit protection
Ground wire terminator (PE) adjustable in 180° steps



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Design B				
Nominal voltage	DC 24 V	705610	LVER-V11-5610 DC 24 V	10
Design BI				
Nominal voltage	DC 24 V	705709	LVER-V12-5709 DC 24 V	10
Technical data				
	705610	705709		
Function type		Switching amplifier		
Protection device		Suppressor diode		
Nominal voltage		DC 24 V		
Nominal voltage range		18 – 30 V		
Current Consumption per LED		19 mA		
Power		–		
Rise time		–		
Saturated voltage at max. current		–		
Switching thresholds		–		
Accuracy		–		
Control current		8 mA		
Switching current		0.005A – 2A		
Switching frequency		max. 20 Hz		
Switch-on delay		<100 µs		
Switch-off delay		<200 µs		
Shut-off points		≤52 V		
Rated frequency		–		
Holding Capacity		100 VA		
Type of connecting lead		–		
Length of connecting lead (M)		–		
Connecting lead		∅ 5–9 mm		
Fittings		PG 9		
Short-circuit protection		yes		
General				
Form	Design B	Design BI		
Status Indication		LED green		
Galvanic isolation I/O		No		
Clearance/creep. dist. (control/load side)		–		
Derating		No		
Conductor labelling		–		
Housing material		PA black / transparent		
Protection class		IP 65		
Field installation		Breakaway torque 0.4 Nm		
Operation temperature range		-25 °C – 60 °C		
Storage temperature range		-25 °C – 80 °C		
Dimensions (w x h x d)		22.0 x 40.0 x 58.0 mm		
Weight (kg/piece)		0.036		
Standards	EN 175301-803 (DIN 43 650), ISO 6952	–		
Termination		Screw terminal: 0.5–1.5 mm ²		
Approvals		–		
Accessories				
Plate 9x20mm	white	681315	BZT-0920	100
Comments				

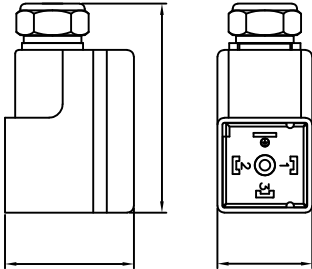
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Adjustable male, form A (18 mm)

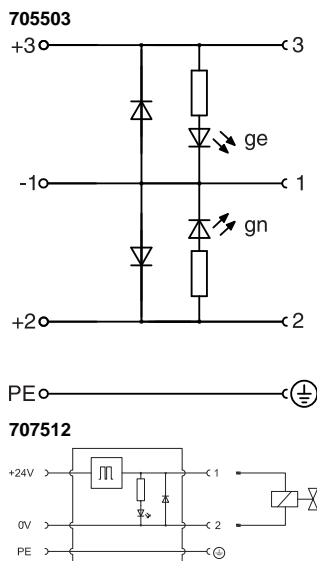
- Double valves
- Energy reducer



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Double valves				
Nominal voltage	DC 24 V	705503	LD-V10-5503	10
Energy reducer				
Nominal voltage	DC 24 V	707512	LBM-V10-7512	10
Technical data				
	705503	707512		
Function type	Double valve plug	Energy reducer		
Protection device		Free-wheeling diode		
Nominal voltage		DC 24 V		
Nominal voltage range		18 – 30 V		
Current Consumption per LED	6 mA	24 mA		
Power	Reduction factor 40–70%, at delivery 50%			
Rise time	Pulse duration approx. 200 ms			
Saturated voltage at max. current	–	1.5 V		
Switching thresholds		–		
Accuracy		–		
Control current		–		
Switching current	≤4 A	≤2 A		
Switching frequency		–		
Switch-on delay		–		
Switch-off delay		–		
Shut-off points		–		
Rated frequency		–		
Holding Capacity		1000 V / 1 A		
Type of connecting lead		–		
Length of connecting lead (M)		–		
Connecting lead		∅ 5–9 mm		
Fittings		PG 9		
Short-circuit protection		–		
General				
Form	Design A, contact clearance 18 mm			
Status Indication	LED green / LED yellow	LED yellow		
Galvanic isolation I/O		–		
Clearance/creep. dist. (control/load side)		–		
Derating		–		
Conductor labelling		–		
Housing material	PA black / transparent			
Protection class	IP 65			
Field installation	Breakaway torque 0.4 Nm			
Operation temperature range	-25 °C – 60 °C			
Storage temperature range	-25 °C – 80 °C			
Dimensions (w x h x d)	28.0 x 40.0 x 58.0 mm			
Weight (kg/piece)	0.035			
Standards	EN 175301-803 (DIN 43 650), ISO 4400			
Termination	Screw terminal: 0.5–1.5 mm ²			
Approvals	–			
Accessories	Colour	Article number	Type	PU
Plate 9x20mm	white	681315	BZT-0920	100
Comments				

Suppression Technology - Valve Suppressors - special function

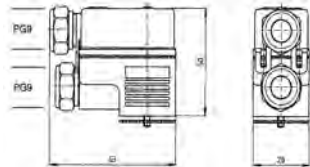
Adjustable plug; design A (18 mm)

- two cable entry points

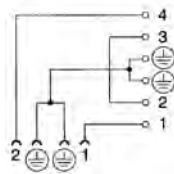
Ground wire terminator (PE) adjustable in 180° steps



Dimensions



PIN assignment



Description	Part-No.	Type	PU
without protection device			
Nominal voltage	AC/DC 0–230 V	707514	LPG-V10-7514 up to 230 V
			10
Technical data		707514	
Function type	Valve suppressors with two cable entry points		
Protection device	without		
Nominal voltage	AC/DC 0–230 V		
Nominal voltage range	0 – 230 V		
Current Consumption per LED	–		
Power	–		
Rise time	–		
Saturated voltage at max. current	–		
Switching thresholds	–		
Accuracy	–		
Control current	–		
Switching current	≤ 4 A		
Switching frequency	–		
Switch-on delay	–		
Switch-off delay	–		
Shut-off points	–		
Rated frequency	50–60 Hz		
Holding Capacity	–		
Type of connecting lead	–		
Length of connecting lead (M)	–		
Connecting lead	Ø 5–9 mm		
Fittings	PG 9		
Short-circuit protection	–		
General			
Form	Design A, contact clearance 18 mm		
Status Indication	–		
Galvanic isolation I/O	–		
Clearance/creep. dist. (control/load side)	–		
Derating	–		
Conductor labelling	–		
Housing material	PA black / transparent		
Protection class	IP 65		
Field installation	Breakaway torque 0.4 Nm		
Operation temperature range	-25 °C – 60 °C		
Storage temperature range	-25 °C – 80 °C		
Dimensions (w x h x d)	28.0 x 50.0 x 63.0 mm		
Weight (kg/piece)	0.030		
Standards	EN 175301-803 (DIN 43 650), ISO 4400		
Termination	Screw terminal: 0.5–1.5 mm ²		
Approvals	–		
Accessories	Colour	Article number	Type
Tag holder 9x20 mm	white	681315	BZT-0920
			100
Comments			