

Suppression Technology - Valve Suppressors - special function

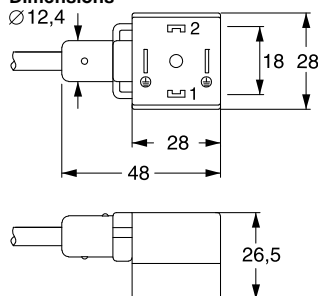
Design A (18 mm)

PUR termination cable

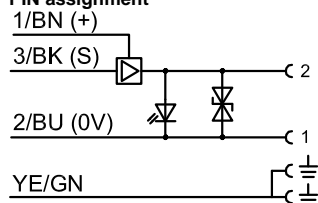
Switching amplifier, short-circuit-proof, 0°–180° installation



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
without galvanic isolation				
Nominal voltage	DC 24 V	709790	LVER-A-9790 2,5m PUR DC 24 V	10
	DC 24 V	709791	LVER-A-9791 5,0m PUR DC 24 V	10
	DC 24 V	709792	LVER-A-9792 10,0m PUR DC 24 V	10
	DC 24 V	709794	LVER-A-9794 20,0m PUR DC 24 V	10

Technical data	709790	709791	709792	709794
Function type	Switching amplifier			
Protection device	Suppressor diode			
Nominal voltage	DC 24 V			
Nominal voltage range	19.2 – 30 V			
Current Consumption per LED	2.4 mA			
Power	–			
Rise time	–			
Saturated voltage at max. current	–			
Switching thresholds	–			
Accuracy	–			
Control current	–			
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	PUR black / PVC 4 x 0.75 mm ²			
Length of connecting lead (M)	2.5	5	10	20
Connecting lead	∅ 5.8 ± 0.15 mm			
Fittings	–			
Short-circuit protection	yes			
General				
Form	Design A, contact clearance 18 mm			
Status Indication	LED yellow			
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 – 80 °C			
Dimensions (w x h x d)	28.0 x 26.5 x 48.0 mm			
Weight (kg/piece)	0.140	0.300	0.560	1.000
Standards	EN 175301-803 (DIN 43 650), ISO 4400			
Termination	–			
Approvals	–			
Accessories				
Tag holder 7x20 mm	Colour	Article number	Type	PU
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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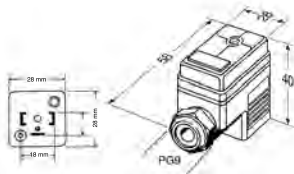
Adjustable male, form A (18 mm)

Switching amplifier with and without galvanic isolation

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

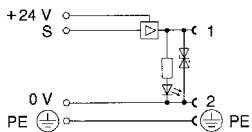


Dimensions

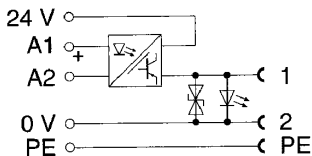


PIN assignment

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

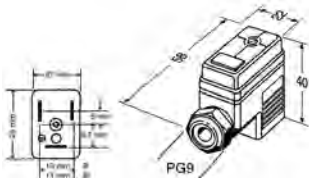
Comments

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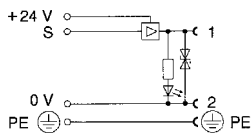
Adjustable connector, design B (10 mm), design BI (11 mm)
Switching amplifier without galvanic isolation, short circuit protection
Ground wire terminator (PE) adjustable in 180° steps



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				