

Mating connectors and cable sets for valves and sensors in hydraulics

RE 08006/04.12
Replaces: 08.11

1/34



Table of contents

See page

2 to 5

Features

- Mating connectors and cable sets for the electrical connection to
 - Valve solenoids
 - Valves with installed electronics
 - Position and pressure sensors
- Different designs and standards
- Plastic and metal versions

Table of contents

			Page
For valves with connector "K4", according to EN 175301-803 and ISO 4400, 2-pole + PE, "large cubic connector"			6 to 13
Mating connectors for valves with one or two solenoids (individual connection)	Without circuitry: Z4, Z45		6 to 8
	With indicator light, also with protective circuit or rectifier: Z5L, Z55L, Z5L1, Z5L2, RZ5, RZ5L, RZ55L, RZ55		
Cable sets for valves with one or two solenoids (individual connection)	Without circuitry: Z4		9 and 10
	With indicator light, also with protective circuit: Z4L Z4L1		
Cable sets for valves with two solenoids (Double mating connectors)	With connector M12 x 1: Z60		11 to 13
	With connector M12 x 1, with indicator light, also with protective circuit: Z60L, Z60L8		
	With breakout cable: Z61		
For valves with "small cubic connector"			14 to 15
Mating connector	G4W1F		14 to 15

Table of contents

			Page
For valves with round connector according to EN 175201-804, 6-pole + PE as well as 6-pole, compatible with VG 95328			16 to 17
Mating connector, 6-pole + PE, plastic version	7PZ31...K		16 to 17
Mating connector, 6-pole + PE, metal version	7PZ31...M		
Mating connector, 6-pole, metal version, compatible with VG 95328	6P KPTC6		
For valves with round connector according to EN 175201-804, 11-pole + PE			18 and 19
Mating connector, 11-pole + PE, metal version, shielded	12PN11...EMV		18 and 19
Mating connector, 11-pole + PE, plastic version	12PN11		
Mating connector, 11-pole + PE, plastic version, two cable outlets	12PN11...2XD8		
For mechanical pressure switches with connector "K14", according to EN 175301-803 and ISO 4400, 3-pole + PE, "large cubic connector"			20 to 23
Mating connectors, 3-pole + PE	Without circuitry: Z14		20 and 21
	With indicator light: Z15L, Z15L6		

Table of contents

			Page
Cable sets, 3-pole + PE	Without circuitry: Z14		22 and 23
Cable sets, 3-pole + PE	With indicator light: Z14L		
For sensors and valves with connector "K24", "K35" and "K72"			24 to 29
Mating connectors, M12 x 1, 4-pole, line cross-section 0.75 mm ²	straight: 4PE11508		24 and 25
	straight: 4PZ24		
	angled: 4PE11509		
	angled: 4PZ24		
Cable sets, M12 x 1, 4-pole, line cross-section 0.34 mm ²	straight: 4PM12		26 and 27
	straight: 4PZ24		
	angled: 4PM12		

Table of contents

			Page
Cable sets, M12 x 1, 4-pole, line cross-section 0.75 mm ²	Straight: KABELSATZ VT-SSPA1-1X/M12/1/V00		28 and 29
	Angled: KABELSATZ VT-SSPA1-1X/M12/2/V00		
For mechanical position switches, mechanical pressure switches and valves with central connection with connector "K6" / "K"			30 and 31
Mating connector, 6-pole + PE	7PZ6, according to EN 175801-804 for connector K6		30 and 31
Mating connector, 4-pole + PE	5P, not standardized, for connector K		
For directional valve with connector "C4" and "C4Z" (AMP Junior-Timer)			32
Mating connectors	2P JUNIOR D2 2 2P D1.2 JUNIOR		32
For directional valves with connector "K40" (Deutsch plug)			33
Mating connectors	2P DT06 K40		33

For valves with connector "K4" according to EN 175301-803 and ISO 4400, 2-pole + PE, "large cubic connector"

– Mating connectors for valves with one or two solenoids (individual connection)

Ordering code

Short designation	Voltage DC / AC U	Current $I_{\max}$	Color	Valve side	Fitting	Material number	Circuit diagram
Without circuitry, standard							
Z4	12...240 V	16 A	Gray	A	M16 x 1.5	R901017010	
	12...240 V	16 A	Black	B	M16 x 1.5	R901017011	
Z45	12...240 V	16 A	Brown	A	NPT 1/2"	R900004823	
	12...240 V	16 A	Black	B	NPT 1/2"	R900011039	
With indicator light							
Z5L	12...240 V	3 A	Black	A/B	M16 x 1.5	R901017022	
Z55L	12...240 V	3 A	Black	A/B	NPT 1/2"	R900057453	
With indicator light and Zener diode suppression circuit							
Z5L1	24 V $\pm$ 10 % ¹⁾	3 A	Black	A/B	M16 x 1.5	R901017026	
With indicator light and protective diode							
Z5L2	24 V $\pm$ 10 % ²⁾ only DC	3 A	Black	A/B	M16 x 1.5	R901017027	
With rectifier							
RZ5	80...240 V ³⁾	0.75 A	Black	A/B	M16 x 1.5	R901017025	
RZ55	80...240 V ³⁾	0.75 A	Black	A/B	NPT 1/2"	R900842566	
With indicator light and rectifier							
RZ5L	80...240 V ³⁾	0.75 A	Black	A/B	M16 x 1.5	R901017029	
RZ55L	80...240 V ³⁾	0.75 A	Black	A/B	NPT 1/2"	R900057455	

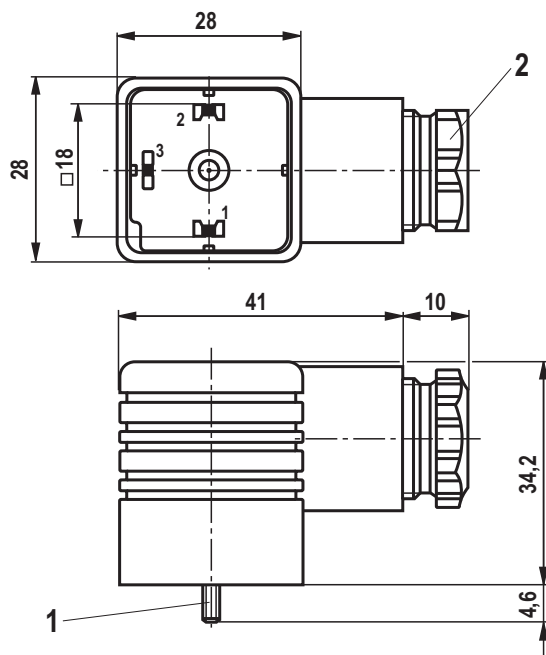
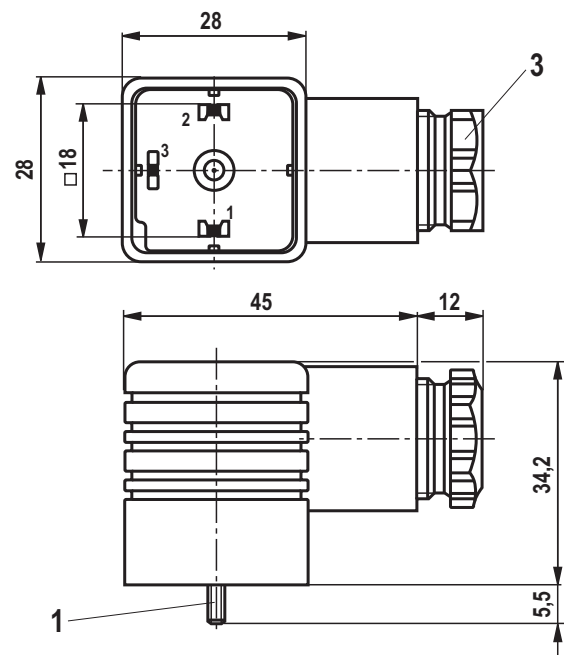
¹⁾ Limitation of the switch-off voltage peak to 55 V

²⁾ Limitation of the switch-off voltage peak to 1 V

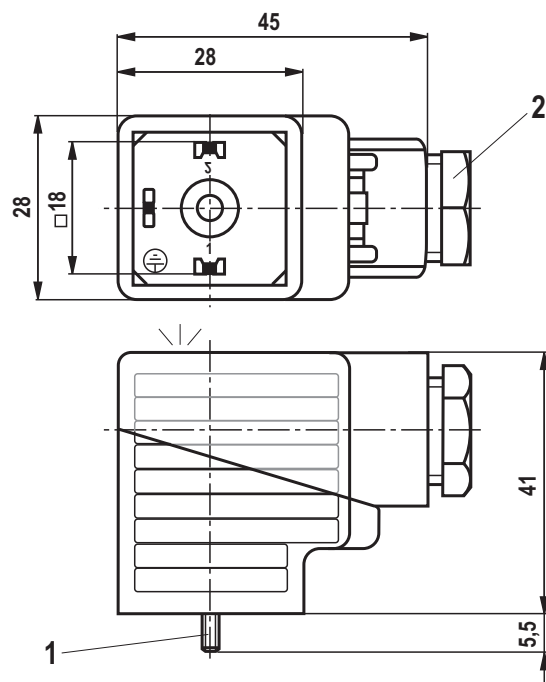
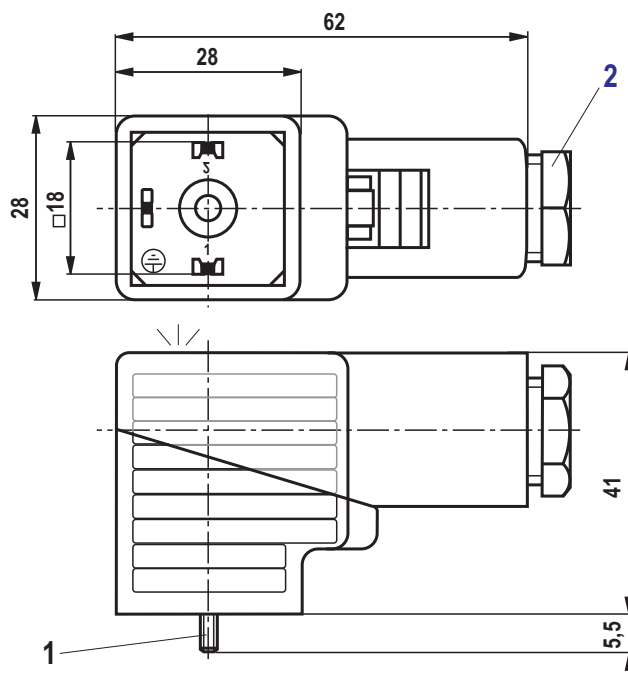
³⁾ Limitation of the switch-off voltage peak to 2 V

Technical Data (For applications outside these parameters, please consult us!)

Ambient temperature	Standard	°C	-40 to +125
	with indicator light/rectifier	°C	-20 to +60
Protection class according to EN 60529			IP 65 with mating connector mounted and locked
Indicator light			LED yellow
Number of poles			2 + PE
Terminal area for lines with external diameter		mm	5 to 10
Maximum line cross-section		mm ²	1.5
Type of connection			Screw connection

Unit dimensions: Z4, Z45 (dimensions in mm)**Z4****Z45**

- 1 Mounting screw M3,
tightening torque $M_A = 0.5 \text{ Nm}$
- 2 Fitting M16 x 1.5
- 3 Fitting NPT 1/2"

Unit dimensions: Z5..., RZ5... (dimensions in mm)**Z5L, Z5L1, Z5L2, RZ5, RZ5L, RZ55****Z55L, RZ55L**

- 1 Mounting screw M3,
tightening torque $M_A = 0.5 \text{ Nm}$
- 2 Fitting M16 x 1.5 / NPT 1/2"
(see table on page 6)

For valves with connector "K4" according to EN 175301-803 and ISO 4400, 2-pole + PE, "large cubic connector"

– Cable sets for valves with one or two solenoids (individual connection)

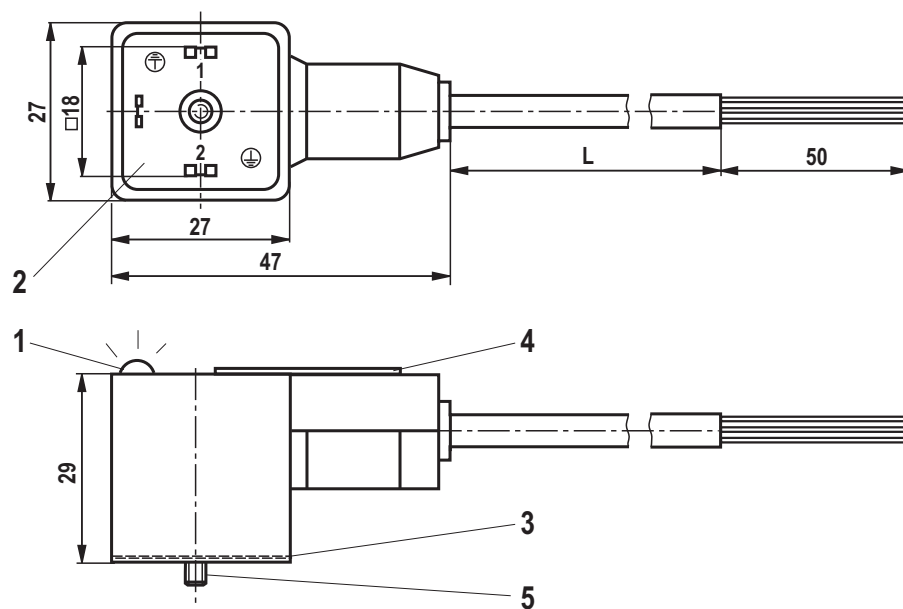
Ordering code

Short designation	Voltage DC / AC	Current $I_{\max}$	Color	Material number for cable length			Circuit diagram
	U			3 m	5 m	10 m	
Without circuitry, standard							
Z4	12...240 V	10 A	Black	R900032020	R900032014	R900217134	
With indicator light							
Z4L	24 V	4 A	Black	R900032050	R900032018	R900217135	
	90...130 V	1 A	Black	R900032023	R900032012	R900217136	
	180...240 V	0.5 A	Black	R900032024	R900032010	R900217137	
With indicator light and Zener diode suppression circuit							
Z4L1	24 V ¹⁾	4 A	Black	R900032021	R900032015	R900217138	

¹⁾ Limitation of the switch-off voltage peak to 55 V

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature	Cable fixedly laid	°C	–20 to +80
	Cable moveable	°C	–5 to +70
Protection class according to EN 60529			IP 67 with mating connector mounted and locked
Indicator light			Z4L... LED yellow
Connection line			Ölflex 150 PVC, gray
Line cross-section			mm ² 3 x 1.0
Core marking	PE		Green/yellow
	Other wires		Black with numbers
Number of poles			2 + PE
Cable diameter			mm Approx. 7

Unit dimensions (dimensions in mm)

- 1 LED
- 2 Contacting 0 + 180° rotatable
- 3 Flat seal (captive)
- 4 Name plate
- 5 Mounting screw M3 (captive),
tightening torque $M_A = 0.5 \text{ Nm}$

L Cable length 3, 5 or 10 m (see "Ordering code")

For valves with connector "K4" according to EN 175301-803 and ISO 4400, 2-pole + PE, "large cubic connector"

– Cable sets for valves with two solenoids (Double mating connectors)

Ordering code: For directional valves type WE **size 6**, SEC and pilot operated switching valves

Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Cable length	Material number	Circuit diagram
With connector M12 x 1					
Z60	24 V	4 A	–	R901207820	
With connector M12 x 1 and indicator light					
Z60L	24 V	4 A	–	R901207819	
With connector M12 x 1, indicator light and Zener diode suppression circuit					
Z60L8	24 V ¹⁾	4 A	–	R901205511	
With breakout cable					
Z61	12...230 V	4 A	3 m	R901207821	
	12...230 V	4 A	5 m	R901207822	

¹⁾ Limitation of the switch-off voltage peak to ≤ 50 V

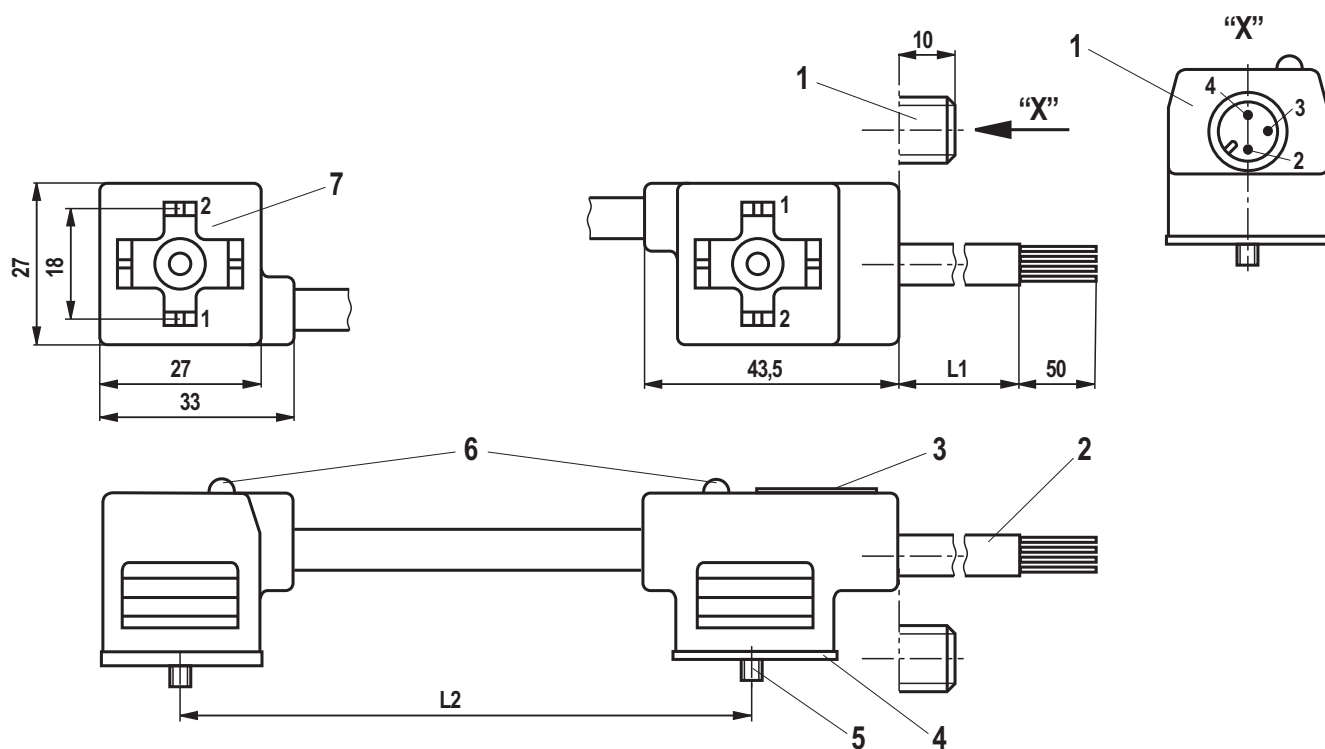
Ordering code: For directional valves type WE size 10

Short designation	Voltage DC / AC U	Current $I_{\max}$	Cable length	Material number	Circuit diagram
With connector M12 x 1					
Z60	24 V	4 A	–	R901207825	
With connector M12 x 1 and indicator light					
Z60L	24 V only DC	4 A	–	R901207824	
With connector M12 x 1, indicator light and Zener diode suppression circuit					
Z60L8	24 V ¹⁾ only DC	4 A	–	R901207823	
With breakout cable					
Z61	12...230 V	4 A	3 m	R901207826	
	12...230 V	4 A	5 m	R901207892	

¹⁾ Limitation of the switch-off voltage peak to ≤ 50 V

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature	Fixedly laid	°C	-20 to +60
	Moveable (with "Z61")		-20 to +60
Protection class according to EN 60529			IP 67 with mating connector mounted and locked
Indicator light	Z60L...		LED yellow
Maximum operating current per contact	A		4 (at 40 °C), 3 (at 60 °C)
Connection line			PUR-JZ black, with UL / CSA approval
Line cross-section of the connection line	mm ²		3 x 0.75
Cable diameter of the breakout cable with "Z61"	mm		5.9 ± 0.2
Line cross-section of the breakout cable with "Z61"	mm ²		4 x 0.75
Core marking with "Z61"	PE		Green/yellow
	Other wires		Black with numbers
Connector M12			Thread in metal design, coding/pinout, design according to EN 61076-2-101:2003 + A1:2006

Unit dimensions (dimensions in mm)

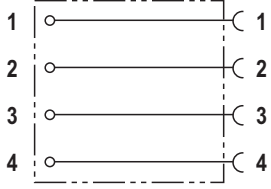
- 1 Version "Z60..."
- 2 Only version "Z61"
- 3 Name plate
- 4 Flat seal (captive)
- 5 Mounting screw M3 (captive),
tightening torque $M_A = 0.5 \text{ Nm}$

- 6 LED (only version "Z60L...")
- 7 Contacting 0° (PE bridged)
- L1 Cable length 3 or 5 m (see "Ordering code")
- L2 113 mm (for valves size 6)
135 mm (for valves size 10)

For valves with "small cubic connector"

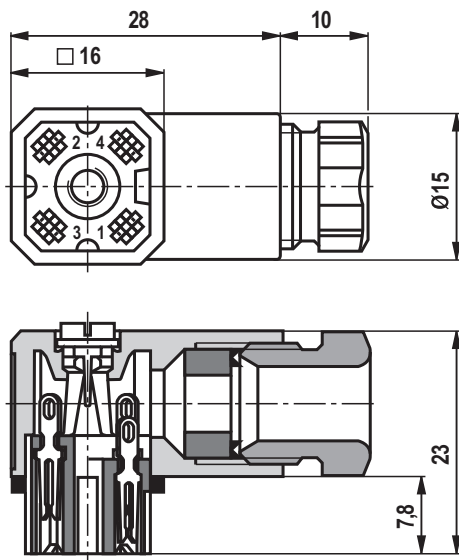
– Mating connector

Ordering code

Short designation	Voltage DC / AC $U_{\max}$	Current $I_{\max}$	Color	Fitting	Material number	Circuit diagram
G4W1F	50	6	Black	PG 7	R900023126	

Technical data (For applications outside these parameters, please consult us!)

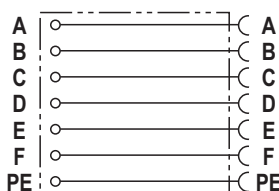
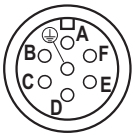
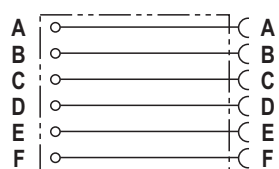
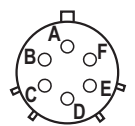
Ambient temperature	°C	–40 to +90
Protection class according to EN 60529		IP 65 with mating connector mounted and locked
Line cross-section	mm ²	0.14 to 0.5
Number of poles		4
Cable diameter	mm	4 to 7.5
Type of connection		Soldered joint

Unit dimensions (dimensions in mm)

**For valves with round connector according to EN 175201-804, 6-pole + PE
as well as 6-pole, compatible with VG 95328**

– Mating connectors

Ordering code

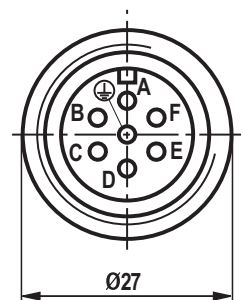
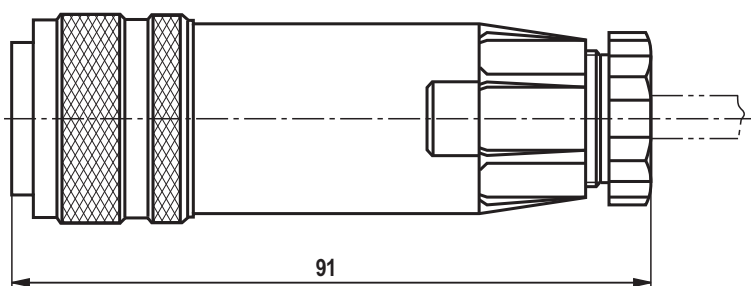
Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Fitting	Cable diameter Connection cross-section	Material number	Circuit diagram Pole pattern
6-pole + PE, plastic version						
7PZ31...K	24	3	PG 11	6.5...11 mm 0.5...1.5 mm ²	R900021267	
6-pole + PE, metal version						
7PZ31...M	24	3	PG 11	8,0...13.5 mm 0.5...1.5 mm ²	R900223890	
6-pole, metal version, compatible with VG 95328						
6P KPTC6	24	3	Special	4.5...7 mm 0.4...0.75 mm ²	R901043330	 

Technical data (For applications outside these parameters, please consult us!)

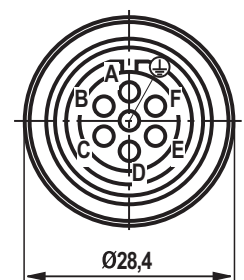
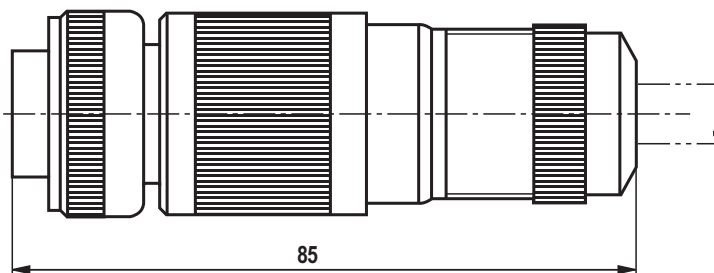
Ambient temperature	°C	–40 to +100
Protection class according to EN 60529		IP 67
Number of poles		6 (+ PE)
Type of connection	7PZ31...	Soldered joint
	6P KPTC6	Crimping connection (crimping contacts in the scope of delivery)

Unit dimensions (dimensions in mm)

6-pole + PE, plastic version, 7PZ31...K

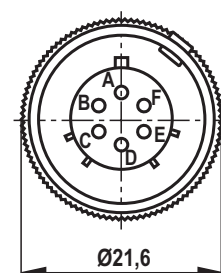
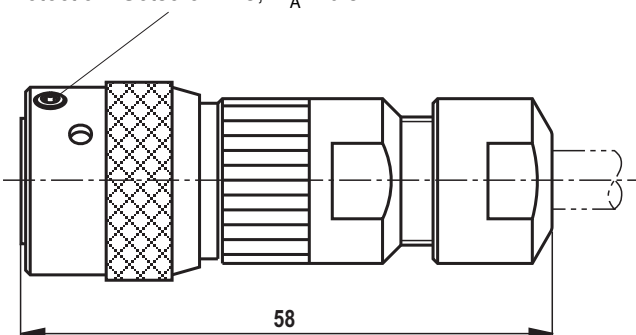


6-pole + PE, metal version, 7PZ31...M



6-pole, metal version, compatible with VG 95328, 6P KPTC6

Protection: Setscrew M3, $M_A = 0.3 \text{ Nm}$



Accessories for "6P KPTC6" (not included in scope of delivery)

Company ITT Canon	Order number
Crimping pliers	M22520/1-01
Crimping insert	M22520/1-02
Installation tool	CiTG-20A
Installation pliers	CIT-KPTC-20

For valves with round connector according to EN 175201-804, 11-pole + PE**– Mating connectors****Ordering code**

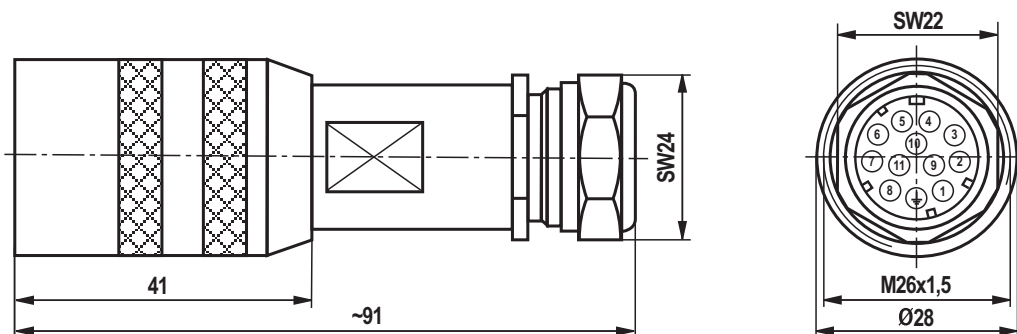
Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Fitting	Cable diameter Connection cross-section	Material number	Circuit diagram Pole pattern
11-pole + PE, metal version, shielded						
12PN11... EMV	24	3	PG 13.5	12...15 mm 0.5 mm²	R901268000	
11-pole + PE, plastic version						
12P N11	24	3	PG 16	12...14 mm 0.5...1.5 mm²	R900752278	
11-pole + PE, plastic version, two cable outlets						
12PN11...2XD8	24	3	PG 16	2 x 6...8 mm 3 x 0.5...1.5 mm² 9 x 0.14...0.5 mm²	R900884671	

Technical data (For applications outside these parameters, please consult us!)

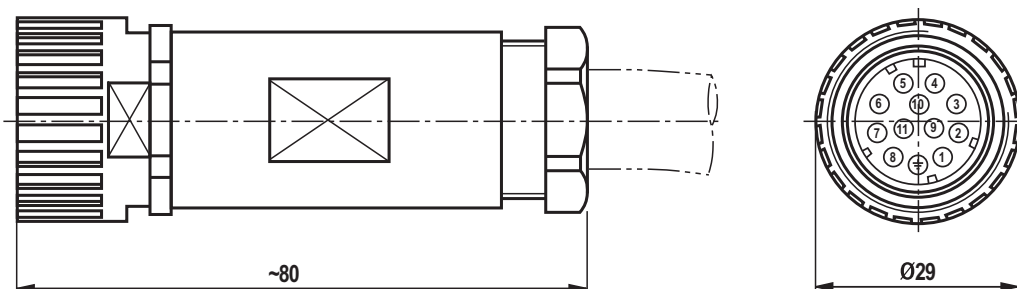
Ambient temperature	°C	–40 to +90
Protection class according to EN 60529	IP 65 with mating connector mounted and locked	
Number of poles	11 + PE	
Type of connection	Crimping connection (crimping contacts in the scope of delivery)	

Unit dimensions (dimensions in mm)

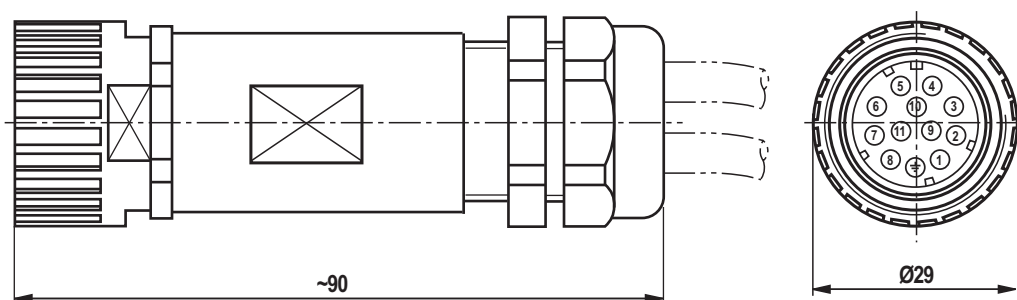
11-pole + PE, metal version, shielded, 12PN11... EMV



11-pole + PE, plastic version, 12PN11



11-pole + PE, plastic version, two cable outlets, 12PN11...2XD8



Accessories (not included in scope of delivery)

Company Hirschmann	Order number
Crimping pliers	XCZ 0701
Ejection tool	XWA 164

For mechanical pressure switches with connector "K14", according to EN 175301-803 and ISO 4400, 3-pole + PE, "large cubic connector"

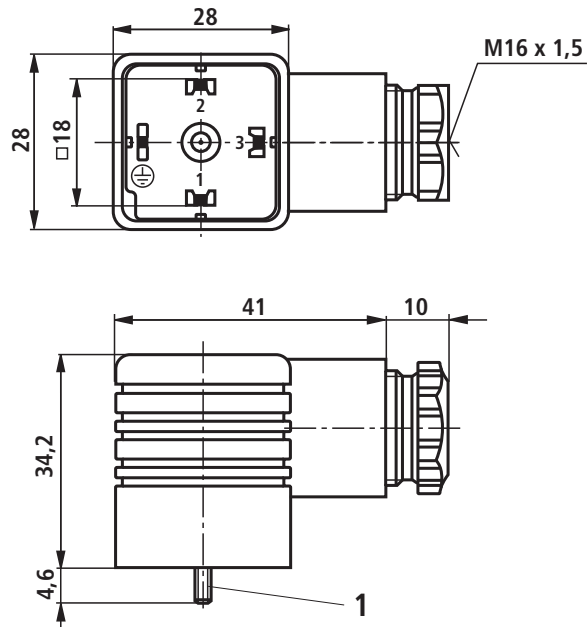
– Mating connectors

Ordering code

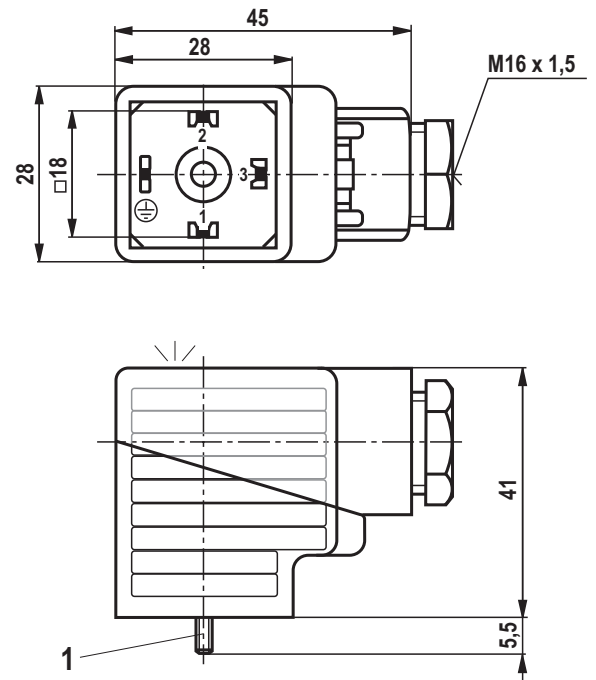
Short designation	Voltage DC / AC U	Current $I_{\max}$	Color	Fitting	Material number	Circuit diagram
Without circuitry, standard						
Z14	12...240 V	16	Black	M16 x 1.5	R901017012	
With indicator lights at connections 2 and 3						
Z15L	6...14 V	4	Black	M16 x 1.5	R901017030	
	16...30 V	4	Black	M16 x 1.5	R901017048	
	36...60 V	4	Black	M16 x 1.5	R901017032	
	90...130 V	4	Black	M16 x 1.5	R901017035	
	180...240 V	4	Black	M16 x 1.5	R901017037	
With indicator lights at connections 1 and 3						
Z15L6	16...36 V	4	Black	M16 x 1.5	R901017040	

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature	Standard	°C	–40 to +125
	with indicator light	°C	–20 to +60
Protection class according to EN 60529			IP 65 with mating connector mounted and locked
Indicator light			Z15L Z15L6 Connection 2: LED green, connection 3: LED yellow Connection 1: LED green, connection 3: LED yellow
Number of poles			3 + PE
Terminal area for lines with external diameter			mm 5 to 10
Maximum line cross-section			mm ² 1.5 with conductor sleeve
Type of connection			Screw connection

Unit dimensions: Z14, Z15L, Z15L6 (dimensions in mm)
Z14


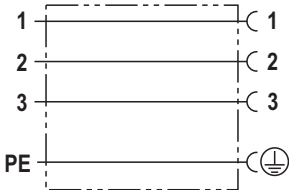
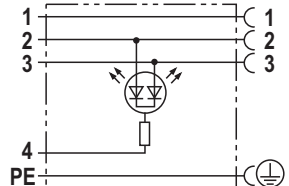
- 1 Mounting screw M3,
tightening torque $M_A = 0.5 \text{ Nm}$

Z15L, Z15L6


For mechanical pressure switches with connector "K14", according to EN 175301-803 and ISO 4400, 3-pole + PE, "large cubic connector"

– Cable sets

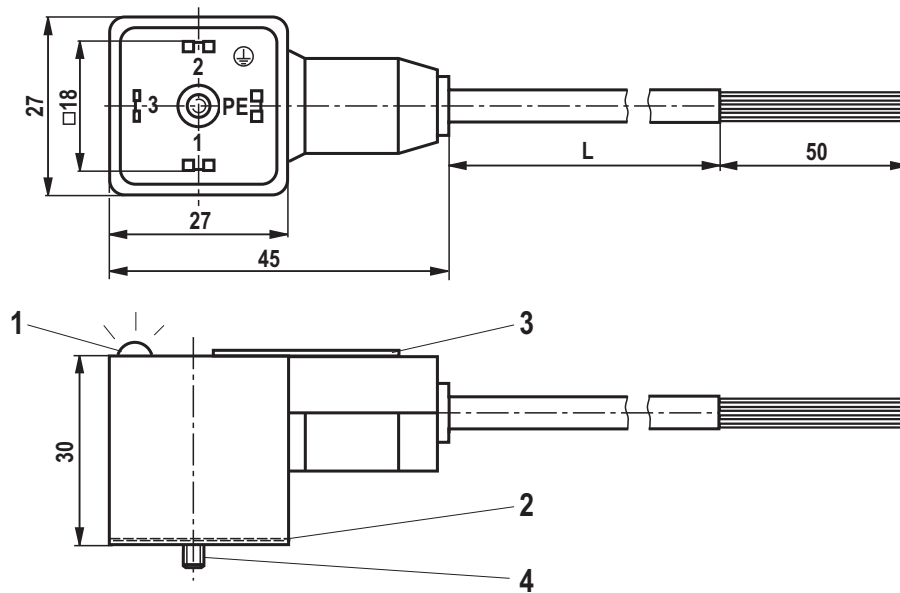
Ordering code

Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Color	Material number for cable length		Circuit diagram
				5 m	10 m	
Without circuitry, standard						
Z14	12 – 240	10 A	Black	R900058528	R900217139	
With indicator light						
Z14L	24 V only DC	4 A	Black	R900210635	R900217140	

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature			–5 to +70
Protection class according to EN 60529			IP 67 with mating connector mounted and locked
Indicator light		Z14L	Connection 2: LED green, connection 3: LED yellow
Connection line			PUR-JZ, gray
Line cross-section	Standard	mm ²	4 x 0.75
	with indicator light	mm ²	5 x 0.5
Core marking	PE		Green/yellow
	Other wires		Black with numbers
Number of poles			3 + PE
Cable diameter		mm	Approx. 7

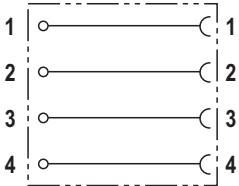
Unit dimensions (dimensions in mm)



- 1 LED
- 2 Flat seal (captive)
- 3 Name plate
- 4 Mounting screw M3 (captive),
tightening torque $M_A = 0.5 \text{ Nm}$

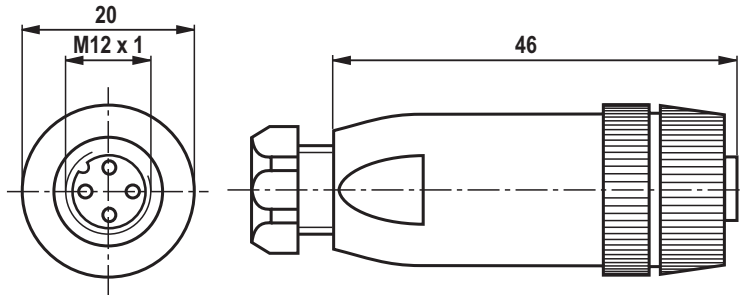
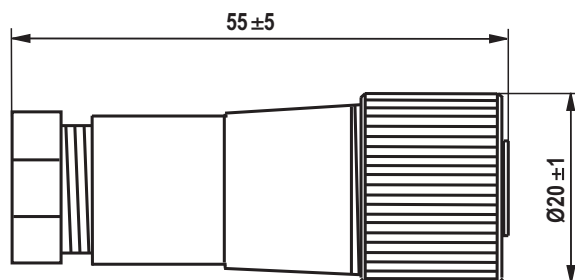
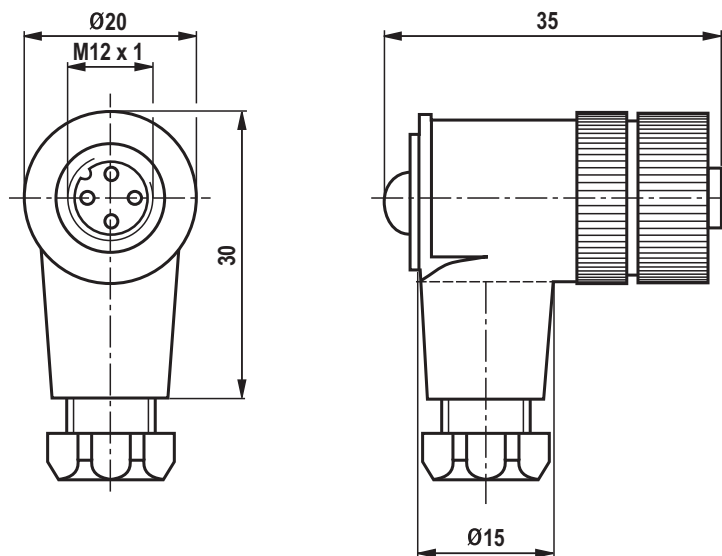
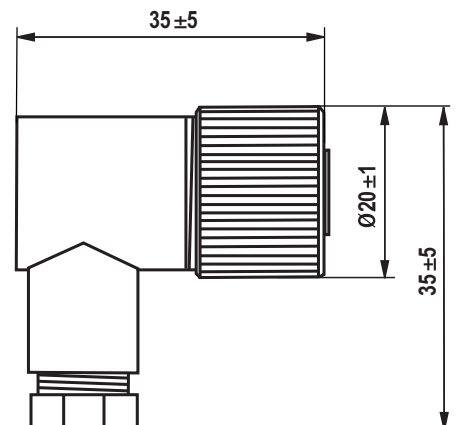
L Cable length 5 or 10 m (see "Ordering code")

For sensors and valves with connector "K24", "K35" and "K72"**– Mating connectors M12, 4-pole, line cross-section 0.75 mm²****Ordering code**

Short designation	Voltage DC $U_{\max}$	Current $I_{\max}$	Color	Fitting	Material number	Circuit diagram Pole pattern
M12 x 1, straight						
4PE11508	50	4	Black	PG 7	R900773042	
4PZ24	50	3	Black	PG 9	R900031155	
M12 x 1, angled						
4PE11509	50	4	Black	PG 7	R900779509	
4PZ24	50	3	Black	PG 9	R900082899	

Technical data (For applications outside these parameters, please consult us!)

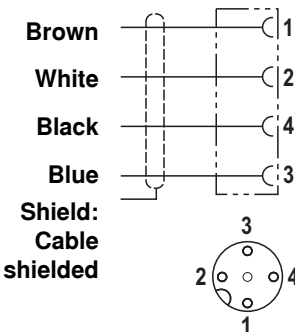
Ambient temperature	4PE1150...	°C	–25 to +85
	4PZ24	°C	–40 to +85
Protection class according to EN 60529			IP 67 with mating connector mounted and locked
Maximum line cross-section			mm ² 4 x 0.75
Number of poles			4
Cable diameter	4PE1150...	mm	4 to 6
	4PZ24	mm	6 to 8
Type of connection			Screw connection

Unit dimensions (dimensions in mm)**M12 x 1, straight, 4PE11508****M12 x 1, straight, 4PZ24****M12 x 1, angled, 4PE11509****M12 x 1, angled, 4PZ24**

For sensors and valves with connector "K24", "K35" and "K72"

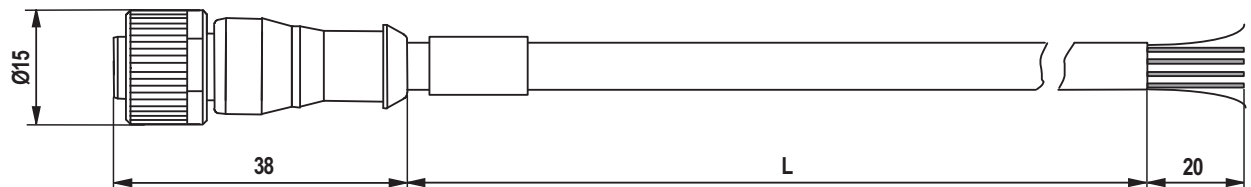
– Cable sets M12, 4-pole, line cross-section 0.34 mm²

Ordering code

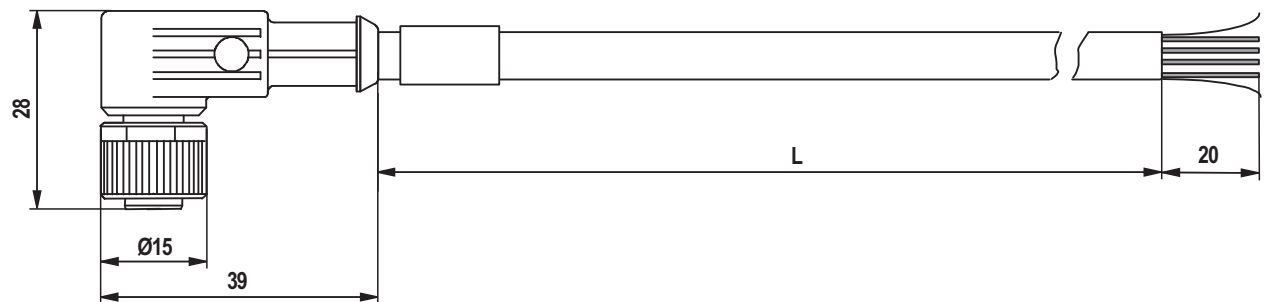
Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Color	Material number for cable length			Circuit diagram Pole pattern
				2 m	3 m	5 m	
M12 x 1, straight							
4PM12	250	4	Black	R900773031	—	R900779498	
4PZ24	50	3	Black	—	R900064381	—	
M12 x 1, angled							
4PM12	250	4	Black	R900779504	—	R900779503	

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature	°C	–25 to +85
Protection class according to EN 60529		IP 67 with mating connector mounted and locked
Connection line		PUR-OB, black with approval: UL, CSA, CE
Line cross-section	mm ²	4 x 0.34
Core marking		1: Brown; 2: White; 3: Blue; 4: Black
Number of poles		4
Cable diameter	4PM12	mm 5.9
	4PZ24	mm 6.5

Unit dimensions (dimensions in mm)**M12 x 1, straight, 4PM12 and 4PZ24**

R900773031	L = 2 m
R900064381	L = 3 m
R900779498	L = 5 m

M12 x 1, angled, 4PM12

R900779504	L = 2 m
R900779503	L = 5 m

For sensors and valves with connector "K24", "K35" and "K72"

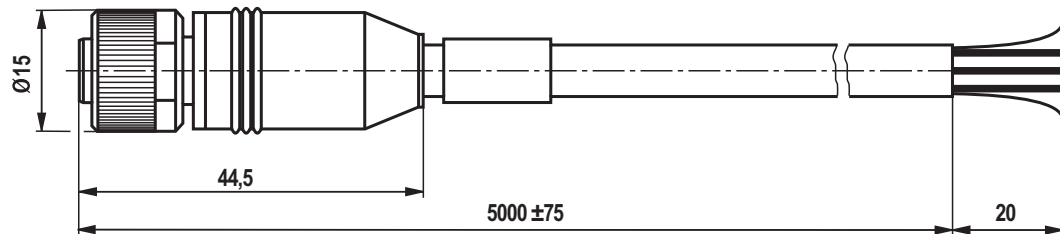
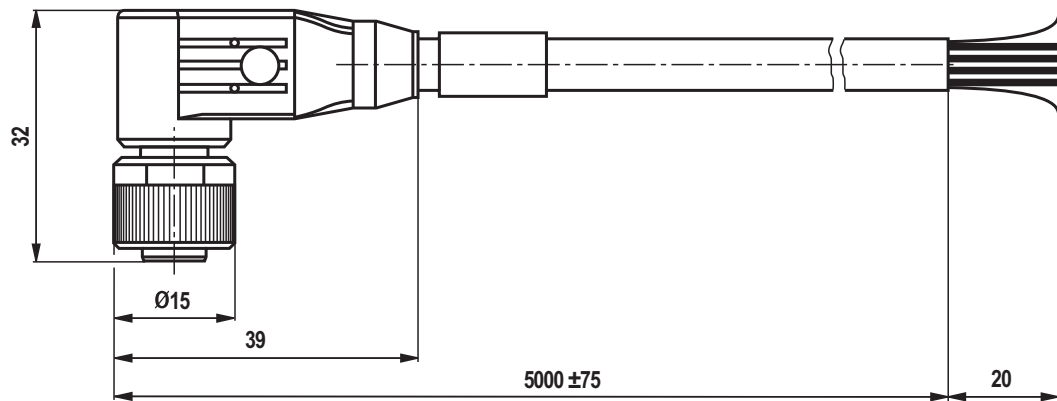
– Cable sets M12, 4-pole, line cross-section 0.75 mm²

Ordering code

Denomination	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Color	Material number	Circuit diagram Pole pattern
M12 x 1, straight KABELSATZ VT-SSPA1-1X/M12/1/V00	60	4	Black	R901241656	Brown White Black Blue Shield: Cable and mat- ing connector shielded
M12 x 1, angled KABELSATZ VT-SSPA1-1X/M12/2/V00	60	4	Black	R901241651	

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature	Fixedly laid	°C	–25 to +80
	Moveable	°C	–5 to +70
Protection class according to EN 60529			IP 67 with mating connector mounted and locked
Connection line			PVC, black
Line cross-section		mm ²	4 x 0.75
Number of poles			4
Cable diameter		mm	6.4

Unit dimensions (dimensions in mm)**M12 x 1, straight, KABELSATZ VT-SSPA1-1X/M12/1/V00****M12 x 1, angled, KABELSATZ VT-SSPA1-1X/M12/2/V00**

For mechanical position switches, mechanical pressure switches and valves with central connection with connector "K6" / "K"

– Mating connectors

Ordering code

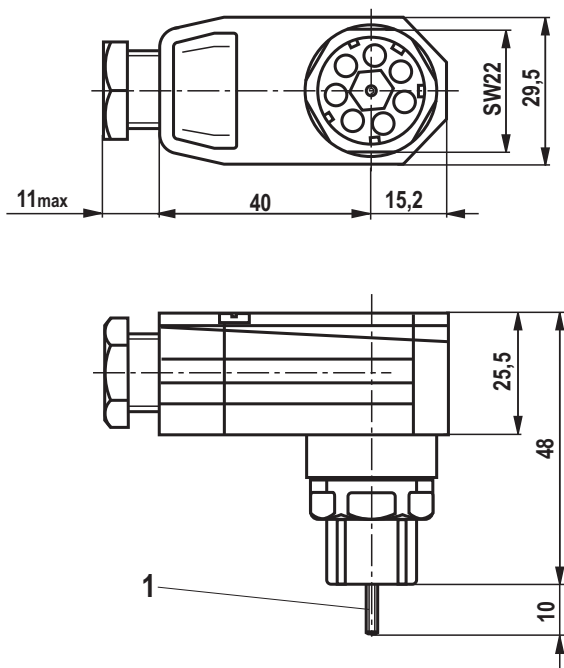
Short designation	Voltage DC / AC <i>U</i>	Current <i>I</i> _{max}	Color	Fitting	Material number	Circuit diagram Pole pattern
6-pole + PE						
7PZ6	250 V	10	Gray	PG 11	R900002803	
4-pole + PE						
5P	250 V	10	Red	PG 11	R900005538	

Technical data (For applications outside these parameters, please consult us!)

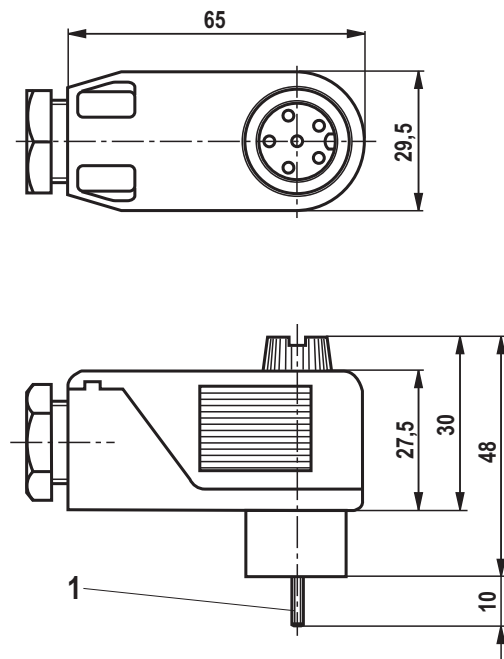
Ambient temperature	°C	–40 to +90
Protection class according to EN 60529		IP 65 with mating connector mounted and locked
Operating current, permanent	A	10
Number of poles	7PZ6	6 + PE
	5P	4 + PE
Terminal area for lines with external diameter	mm	7 to 9
Maximum line cross-section	mm ²	1.5
Type of connection		Crimping connection (crimping contacts in the scope of delivery)

Unit dimensions 7PZ6, 5P (dimensions in mm)

7PZ6



5P



- 1 Mounting screw M3,
tightening torque $M_A = 0.5 \text{ Nm}$

Accessories (not included in scope of delivery)

For "7PZ6"	Order number, company HIRSCHMANN
Crimping pliers	XCZ 0701
Ejection tool	XWA 164
For "5P"	Order number, company Amphenol-Tuchel
Crimping pliers	TA 0500
Crimping dies	TA 0000 163
Contact locator	TA 0005 093 0001

For directional valve with connector "C4" and "C4Z" (AMP Junior-Timer)

– Mating connectors

Ordering code

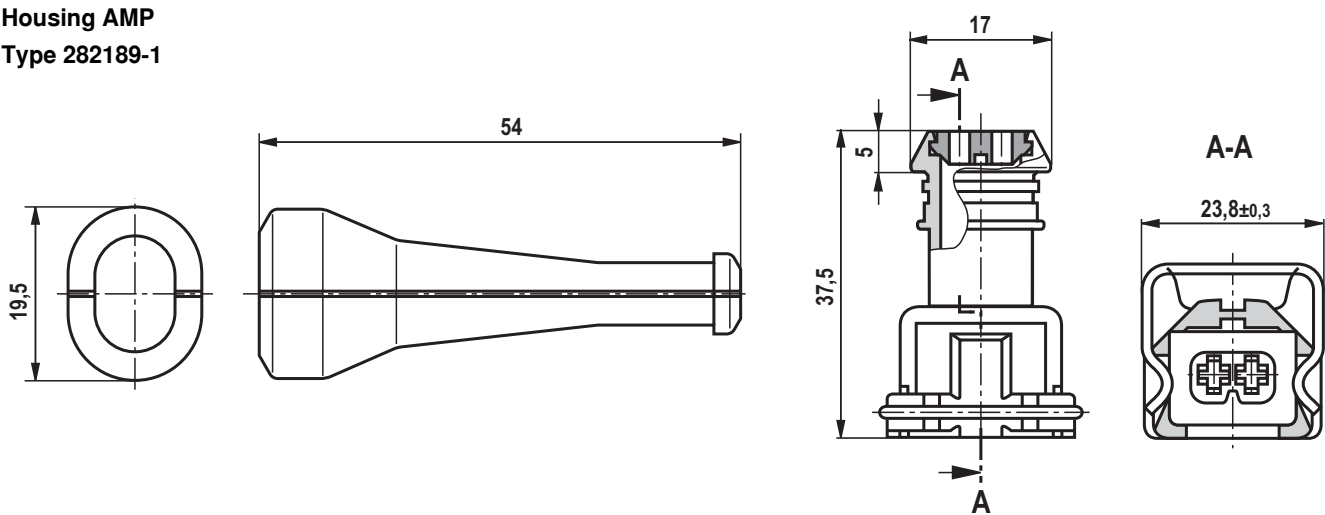
Short designation	External line diameter in mm	Color	Material number
2P JUNIOR D2 2	2.2 to 3.0	Black	R901022127
2P D1.2 JUNIOR	1.2 to 2.1	Black	R900313533

Technical data (For applications outside these parameters, please consult us!)

Ambient temperature range	°C	–20 to +125
Admissible operating voltage range	V DC	10 to 32
Protection class according to EN 60529		IP 66A (correctly mounted and locked)
Maximum operating current	A	5
Number of poles		2
Admissible external cable diameter	mm	5.2 to 7
Line cross-section	mm²	0.5 to 1
Type of connection		Crimping connection
As-delivered state		1 connector housing, 2 contacts, 2 individual connector seals, 1 rubber bushing unmounted in pouch

Unit dimensions (dimensions in mm)

Housing AMP
Type 282189-1



Accessories (not included in scope of delivery)

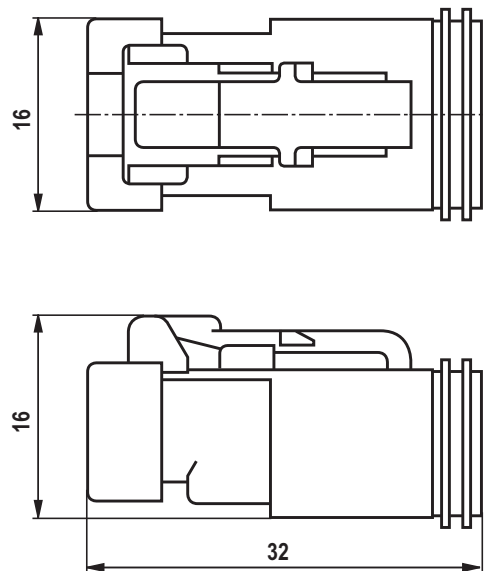
Crimping tool	
Basic pliers	Type 539635-1, company TYCO
Die	Type 539737-2, company TYCO

For directional valves with connector "K40" (Deutsch plug)**– Mating connectors****Ordering code**

Short designation	Line cross-section	Color	Material number
2P DT06 K40AWG14	AWG14-16	Gray	R900733451
2P DT06 K40AWG16	AWG16-18	Gray	R901017847

Technical data (For applications outside these parameters, please consult us!)

Connector housing		DT06-2S-CE01	
Ambient temperature range	°C	–20 to +125	
Admissible operating voltage range	V DC	10 to 32	
Protection class according to EN 60529		IP 69K (correctly mounted and locked)	
Maximum operating current	A	5	
Number of poles		2	
Maximum line cross-section	AWG 14-16	mm ²	1.3 to 2.08
	AWG 16-18	mm ²	0.83 to 1.3
Admissible external diameter - individual conductor	mm	1.35 to 3.05	
Type of connection		Crimping connection	
As-delivered state		1 connector housing, 2 contacts, 1 locking wedge, unmounted in pouch	

Unit dimensions (dimensions in mm)**Accessories** (not included in scope of delivery)

Crimping tool	Type HDT-4800, company Deutsch
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Notes

Notes

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Notes
