

1458570

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Valve connectors, 3-position, Plug angled M12, coding: A, with 1 LED, Wiring: Z diode, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode

Commercial data

Item number	1458570	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	BF10	
Product key	BF1GDA	
Catalog page	Page 257 (C-2-2019)	
GTIN	4046356639026	
Weight per piece (including packing)	25.942 g	
Weight per piece (excluding packing)	25.4 g	
Customs tariff number	85366990	
Country of origin	PL	



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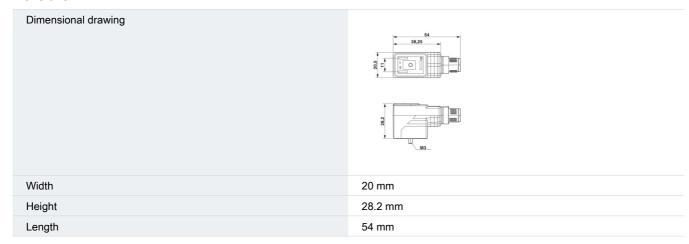
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Technical data

Product properties

Product type	Valve connector adapter		
Number of positions	3		
No. of cable outlets	1		
Coding	A		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

Dimensions



Connection data

Connection method	M12 connector	
Tightening torque	0.6 Nm (valve plug)	

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	24 V AC
	24 V DC
Nominal current I _N	4 A

Valve connector characteristics

Fixing screws	M3 x 29
Pulse power	40 W (at 100 μs square-wave pulse)
Terminal voltage	70 V (at 2 mA constant current)
Reverse voltage	50 V

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	50 (valve plug)
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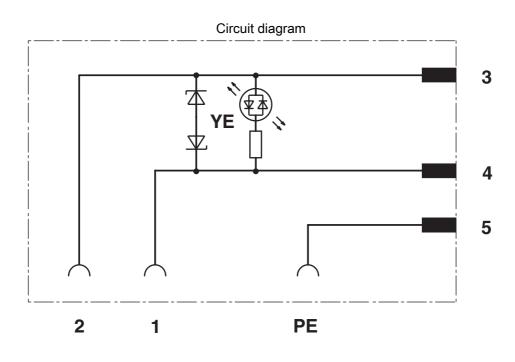
≥ 100 (M12 connector) Material specifications Filammability rating according to UL 94				
Flammability rating according to UL 94 Seal material TPU Material housing valve plug Contact material Contact surface material Contact carrier material Contact carrier material Contact surface material Valve plug contact insert material PA 6.6 Contact surface material Sin Material for screw connection Signalling Status display Yellow LED Status display present Yes Connector Connection 1 Type Plug angled M12 Number of positions Coding type A Connection 2 Type Valve connector Bi (11 mm) Number of positions Material Cuss (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Degree of protection M12 Standard designation		≥ 100 (M12 connector)		
Seal material TPU	Material specifications			
Material housing valve plug	Flammability rating according to UL 94	НВ		
Contact material	Seal material	TPU		
Contact surface material PA 66 Contact material CuSn Contact material PA 6.6 Contact material PA 6.6 Contact material PA 6.6 Contact surface material Sn Material for screw connection Zinc die-cast, nickel-plated Signalling Status display Present Yes Connector Connector Connection 1 Type Plug angled M12 Number of positions 3 Coding type A Connection 2 Type Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact surface) PA 6.6 CuSn (Contact curriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) P165 IP67 Ambient temperature (operation) M12 Standard designation M12 connector	Material housing valve plug	TPU		
Contact carrier material	Contact material	CuSn		
Contact material CuSn Valve plug contact insert material PA 6.6 Contact surface material Sn Material for screw connection Zinc die-cast, nickel-plated Signaling Yellow LED Status display Yellow LED Status display present Yes Connector Ves Connection 1 Plug angled M12 Number of positions 3 Coding type A Connection 2 Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions IP65 Degree of protection IP65 Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Contact surface material	Ni/Au		
Valve plug contact insert material PA 6.6 Contact surface material Sn Material for screw connection Zinc die-cast, nickel-plated Signaling Status display present Yellow LED Status display present Connection Type Number of positions Connection 2 Type Valve connector BI (11 mm) Number of positions Material CuSn (Contact) Material CuSn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 PA milent temperature (operation) -25 °C 65 °C (valve plug) Standards and regulations M12 connector	Contact carrier material	PA 66		
Contact surface material Sin	Contact material	CuSn		
Signaling Status display Yellow LED Status display present Yes Connector Connector Connection 1 Type Plug angled M12 Number of positions 3 Coding type A Connection 2 Type Valve connector BI (11 mm) Number of positions 3 Material Cush (Contact surface) PA 6 (Contact surface) PA 6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Ambient conditions Degree of protection 1 IP65 IP67 Ambient temperature (operation) 2-25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Valve plug contact insert material	PA 6.6		
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Connector Connection 1 Type Plug angled M12 Number of positions 3 Coding type A Connection 2 Type Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Signaling			
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Connection 2 Type Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Туре	Plug angled M12		
Type Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Number of positions	3		
Type Valve connector BI (11 mm) Number of positions 3 Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Coding type	A		
Number of positions Material Material Material Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation M12 connector	Connection 2			
Material Material CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation M12 connector	Туре	Valve connector BI (11 mm)		
Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation M12 connector	Number of positions	3		
PA 6.6 (Contact carriers) TPU (Housing) Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation PA 6.6 (Contact carriers) TPU (Housing) IP65 IP67 IP67 Ambient temperature (operation) M12 connector	Material	CuSn (Contact)		
Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation TPU (Housing) IP65 IP65 IP67 Ambient temperature (operation) -25 °C 85 °C (valve plug)		Sn (Contact surface)		
Environmental and real-life conditions Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation M12 connector		PA 6.6 (Contact carriers)		
Ambient conditions Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation M12 connector		TPU (Housing)		
Degree of protection IP65 IP67 Ambient temperature (operation) Standards and regulations M12 Standard designation IP65 IP67 Arbient temperature (operation) -25 °C 85 °C (valve plug) M12 connector	Environmental and real-life conditions			
Ambient temperature (operation) Standards and regulations M12 Standard designation IP67 -25 °C 85 °C (valve plug) M12 connector	Ambient conditions			
Ambient temperature (operation) -25 °C 85 °C (valve plug) Standards and regulations M12 Standard designation M12 connector	Degree of protection	IP65		
Standards and regulations M12 Standard designation M12 connector				
M12 Standard designation M12 connector	Ambient temperature (operation)	-25 °C 85 °C (valve plug)		
Standard designation M12 connector	Standards and regulations			
Standard designation M12 connector	M12			
		M12 connector		
	Standards/specifications	IEC 61076-2-101		



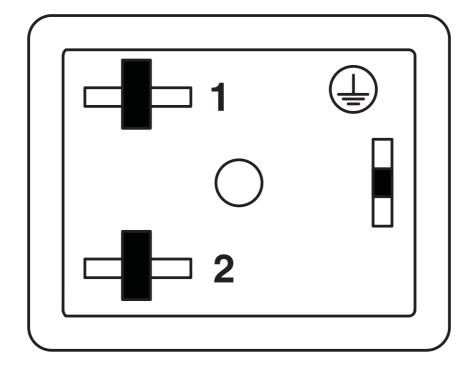
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Drawings



Schematic diagram

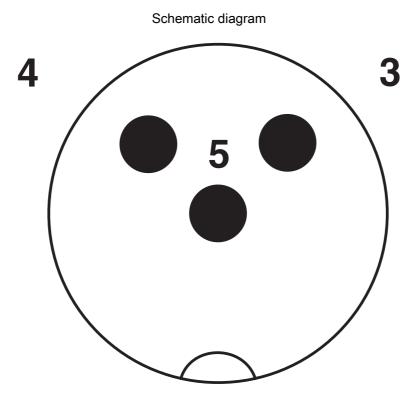


Valve connector pin assignment, type BI



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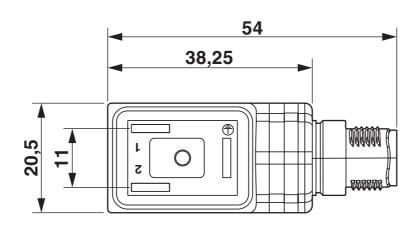
Pin assignment M12 plug, 3-pos., A-coded, view male side

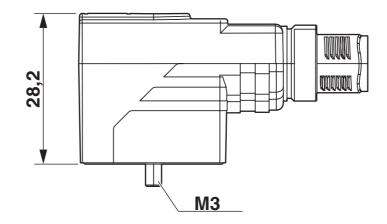


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Dimensional drawing







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1458570

DNV Approval ID: TAE00002K4			

EAC Approval ID: RU C-DE.BL08.B.00511

@	CSAus Approval ID: 13631				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		24 V	4 A	-	-



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Classifications

ECLASS

	ECLASS-11.0	27440105				
	ECLASS-12.0	27440105				
	ECLASS-13.0	27440105				
ΕT	ETIM					
	ETIM 9.0	EC003623				
UNSPSC						
	UNSPSC 21.0	31251500				



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)



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Accessories

SAC-3P-FS SCO V/.../... - Connecting cable

1406702

https://www.phoenixcontact.com/us/products/1406702



Connecting cable, 3-position, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m), for valve plug adapters

SAC-3P-M12MS/3,0-PUR/M12FS 345 - Sensor/actuator cable

1402560

https://www.phoenixcontact.com/us/products/1402560



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m, For valve connector



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SAC-3P-M12MS/5,0-PUR/M12FS 345 - Sensor/actuator cable

1402561

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 5 m, For valve connector

SAC-3P-M12MS/10,0-PUR/M12FS 345 - Sensor/actuator cable

1402562

https://www.phoenixcontact.com/us/products/1402562



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m, For valve connector



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TSD-M 1,2NM - Torque screwdriver

1212224

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Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

SF-BIT-PH 1-70 - Screw insert

1212582

https://www.phoenixcontact.com/us/products/1212582



Screw bit, PH crosshead, E6.3-1/4" drive, size: PH 1 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

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