



Position feedback unit for pneumatic rotary actuators

- Combines the functions of a position feedback indicator and an optional solenoid valve in one
- Available with 3/2-way, 5/2-way or without solenoid valve
- ATEX variants available
- Perfectly suited for pneumatic rotary actuators: Type 2051 and Type 2052
- Mounting console with adjustable size enables use with actuators in different sizes

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with



Type 2051

Pneumatic rotary actuator



Type 2052

Pneumatic rotary actuator



Type 8805

Ball valve / Butterfly valve with pneumatic rotary actuator

Type description

Type 1061 combines the functions of a position feedback indicator and a solenoid valve in one box. It can also be ideally combined with the Type 2051 and 2052 rotary actuators (and/or with the Type 8805 system). Type 1061 is available with different variants of limit switches (micro switches, inductive sensors) and solenoid valves (3/2-way, 5/2-way and without solenoid valve). ATEX variants and variants with ASi fieldbus connection are also available. Requirements for a wide variety of applications and processes can be met due to multiple variants.

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1. General technical data

Product properties

Dimensions	Further information can be found in chapter "2.1. Type 1061 with electromechanical feedback" on page 4. Further information can be found in chapter "2.2. Type 1061 with inductive feedback" on page 6. Further information can be found in chapter "2.3. Type 1061 with inductive feedback – ATEX variant" on page 8. Further information can be found in chapter "2.4. Type 1061 with electromechanical feedback and AS-Interface" on page 10. Further information can be found in chapter "2.5. Type 1061 with inductive feedback and AS-Interface" on page 12.
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Material

Housing	Aluminium
Seal	PUR
Base (powder-coated)	RAL9005
Cover (powder-coated)	RAL7016
Dome	Polycarbonate
Switching precision	< 1.5°
Bracket	Adjustable Hole gauge: 80/130 mm x 30 mm Height: 20/30 mm

Electrical data

Switching capacity	4 A, 230 V AC
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Limit switch

Micro switch	Crouzet 83.161.301 Crouzet 83.161.8
Inductive sensor	Pepperl+Fuchs NBB2-V3-E2 Pepperl+Fuchs NJ2-V3-N

Approvals and conformities

Explosion protection	Without solenoid valve	With 3/2-way solenoid valve	With 5/2-way solenoid valve
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Further information can be found in chapter ["3. Approvals and conformities" on page 14.](#)

Environment and installation

Operating conditions

Ambient temperature	- 25 °C...- 10 °C up to 55 °C...85 °C
Degree of protection	IP65 according to EN 60529

1.) ATEX classification according to type plate specification EU type examination certificate according to producer

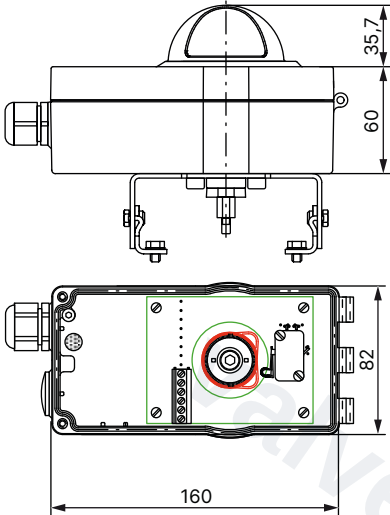
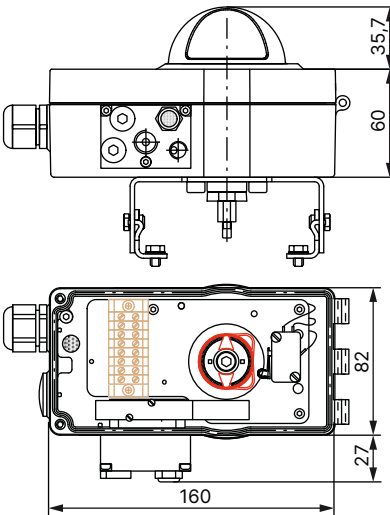
2. Product variants

2.1. Type 1061 with electromechanical feedback

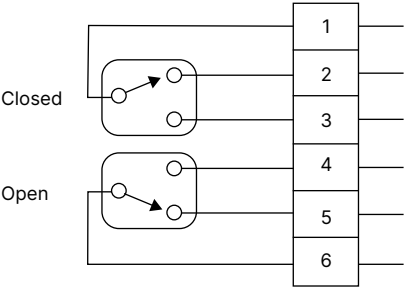
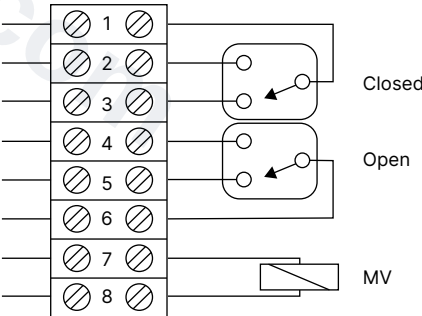
Dimensions

Note:

Dimensions in mm, unless otherwise stated

Without solenoid valve	With 3/2-way solenoid valve / With 5/2-way solenoid valve
	

Terminal connection diagramm

	
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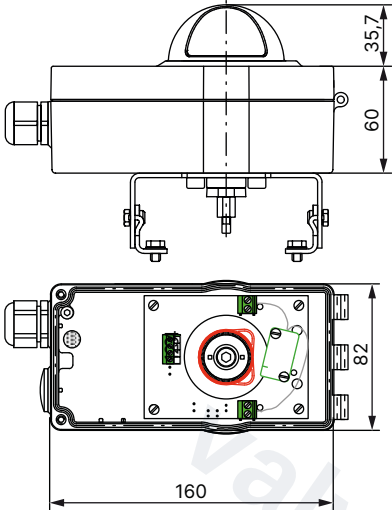
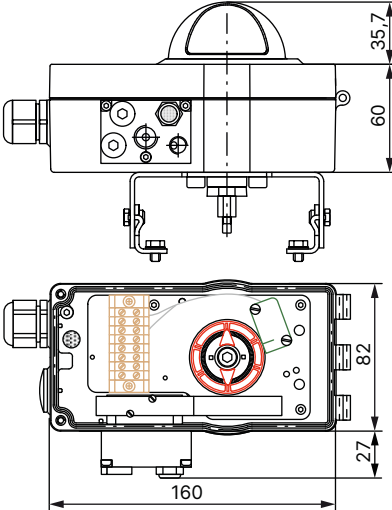
Ordering chart

Technical Data	Without solenoid valve	With 3/2-way solenoid valve		With 5/2-way solenoid valve	
Limit switch					
Manufacturer	Crouzet	Crouzet		Crouzet	
Type	83.161.301 micro switch	83.161.301 micro switch		83.161.301 micro switch	
Switching capacity	4 A, 230 V AC/DC	4 A, 230 V AC/DC		4 A, 230 V AC/DC	
Contacts	Silver nickel	Silver nickel		Silver nickel	
System connection	Cable gland M20 × 1.5 Clamp range 8...13 mm	Cable gland M20 × 1.5 Clamp range 8...13 mm		Cable gland M20 × 1.5 Clamp range 8...13 mm	
Terminals	Screw-type terminals up to 2.5 mm²	Screw-type terminals up to 2.5 mm²		Screw-type terminals up to 2.5 mm²	
Ambient temperature	- 25 °C...85 °C	- 10 °C...55 °C		- 10 °C...55 °C	
Solenoid valve					
Bürkert Type	–	Type 6524 Article no.	302827 	Type 6525 Article no.	302828 
Ways	–	3/2		5/2	
Operating voltage	–	24 V DC		24 V DC	
Nominal power	–	0.8 W		0.8 W	
Orifice	–	4 mm		4 mm	
Supply/exhaust air	–	G ¼, G ⅛		G ¼, G ⅛	
Article no.	773151 	773139 		773140 	

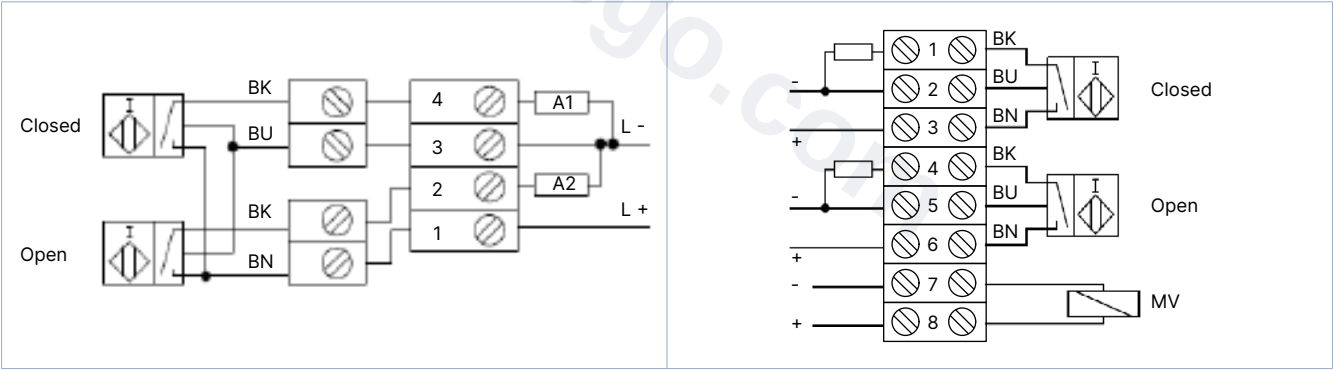
2.2. Type 1061 with inductive feedback

Dimensions

Note:
Dimensions in mm, unless otherwise stated

Without solenoid valve	With 3/2-way solenoid valve / With 5/2-way solenoid valve
	

Terminal connection diagramm



Ordering chart

Technical Data	Without solenoid valve	With 3/2-way solenoid valve		With 5/2-way solenoid valve	
Limit switch					
Manufacturer	Pepperl+Fuchs	Pepperl+Fuchs		Pepperl+Fuchs	
Type	NBB2-V3-E2 inductive sensor	NBB2-V3-E2 inductive sensor		NBB2-V3-E2 inductive sensor	
Operating voltage	10...30 V DC	10...30 V DC		10...30 V DC	
Operating current	0...100 mA	0...100 mA		0...100 mA	
Output	Short-circuit and pole protected	Short-circuit and pole protected		Short-circuit and pole protected	
System connection	Cable gland M20 × 1.5 Clamp range 8...13 mm	Cable gland M20 × 1.5 Clamp range 8...13 mm		Cable gland M20 × 1.5 Clamp range 8...13 mm	
Terminals	Screw-type terminals up to 2.5 mm²	Screw-type terminals up to 2.5 mm²		Screw-type terminals up to 2.5 mm²	
Ambient temperature	- 25 °C...70 °C	- 10 °C...55 °C		- 10 °C...55 °C	
Solenoid valve					
Bürkert Type	–	Type 6524 Article no.	302827 𐀀	Type 6525 Article no.	302828 𐀀
Ways	–	3/2		5/2	
Operating voltage	–	24 V DC		24 V DC	
Nominal power	–	0.8 W		0.8 W	
Orifice	–	4 mm		4 mm	
Supply/exhaust air	–	G ¼, G ⅛		G ¼, G ⅛	
Article no.	773152 𐀀	773141 𐀀		773142 𐀀	

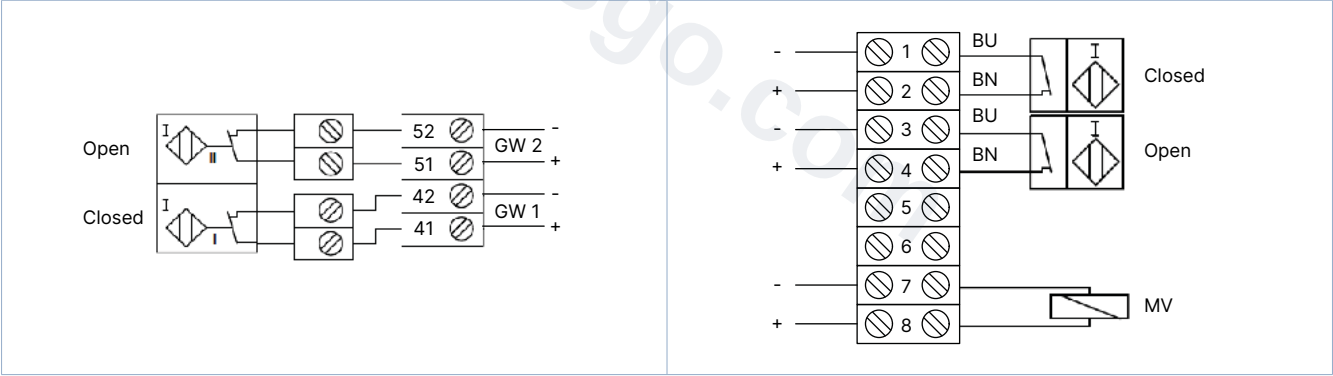
2.3. Type 1061 with inductive feedback – ATEX variant

Dimensions

Note:
Dimensions in mm, unless otherwise stated

Without solenoid valve	With 3/2-way solenoid valve / With 5/2-way solenoid valve

Terminal connection diagramm



Ordering chart

Technical Data	Without solenoid valve	With 3/2-way solenoid valve	With 5/2-way solenoid valve
Limit switch			
Manufacturer	Pepperl+Fuchs	Pepperl+Fuchs	Pepperl+Fuchs
Type	NJ2-V3-N inductive sensor	NJ2-V3-N inductive sensor	NJ2-V3-N inductive sensor
Operating voltage	8.2 V DC (1000 Ω)	8.2 V DC (1000 Ω)	8.2 V DC (1000 Ω)
Operating current	≥ 3 mA (not activated) ≤ 1 mA (activated)	≥ 3 mA (not activated) ≤ 1 mA (activated)	≥ 3 mA (not activated) ≤ 1 mA (activated)
Output	Short-circuit and pole protected	Short-circuit and pole protected	Short-circuit and pole protected
System connection	Cable gland M20 $\times$ 1.5 Clamp range 8...13 mm	Cable gland M20 $\times$ 1.5 Clamp range 8...13 mm	Cable gland M20 $\times$ 1.5 Clamp range 8...13 mm
Terminals	Screw-type terminals up to 2.5 mm ²	Screw-type terminals up to 2.5 mm ²	Screw-type terminals up to 2.5 mm ²
Ambient temperature	- 25 °C...70 °C	- 10 °C...55 °C	- 10 °C...55 °C
Solenoid valve			
Bürkert Type	–	Type 6524 Article no. 184560 	Type 6525 Article no. 184564 
Ways	–	3/2	5/2
Electrical resistance	–	320 Ω	320 Ω
Min. operating current	–	29 mA	29 mA
Power consumption	–	0.3 W	0.3 W
Orifice	–	4 mm	4 mm
Supply/exhaust air	–	G 1/4, G 1/8	G 1/4, G 1/8
Approvals and conformities			
ATEX	EU-Type Examination PTB 10 ATEX 1061 X ^{1.)} II 2D Ex tb IIIC T80 °C Db ^{2.)} II 2G Ex eb ia IIC T6 Gb ^{2.)}	EU-Type Examination PTB 00 ATEX 2032 X (Sensor) PTB 07 ATEX 2048 (Solenoid valve) II 2G Ex ia IIC T6 Gb ^{2.)}	
Article no.	773153 	773143 	773144 

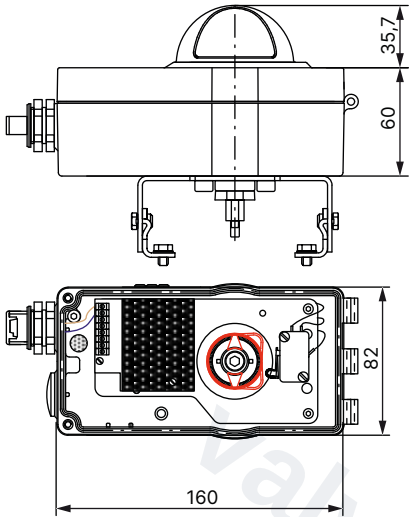
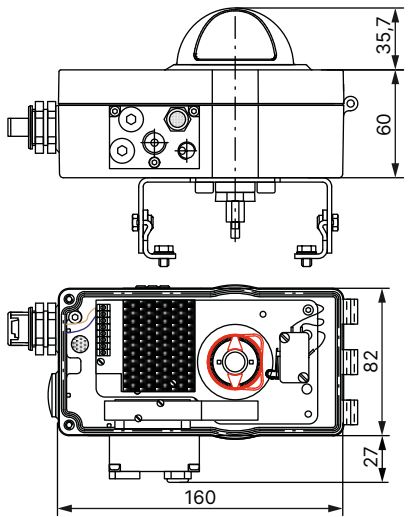
1.) EU-Type Examination Certificate according to the producer

2.) ATEX classification according to type plate specification

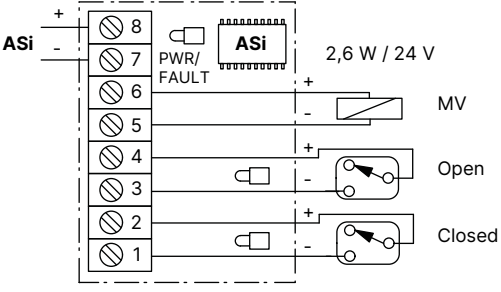
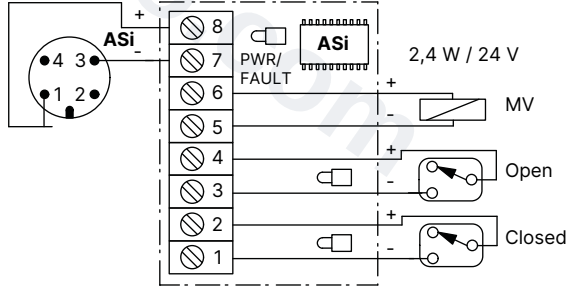
2.4. Type 1061 with electromechanical feedback and AS-Interface

Dimensions

Note:
Dimensions in mm, unless otherwise stated

Without solenoid valve	With 3/2-way solenoid valve / With 5/2-way solenoid valve
	

Terminal connection diagramm

		Programming information Profile: S-D.A.E IO code: D ID code: A ID1 code: 7 ID2 code: E 62 slaves
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Ordering chart

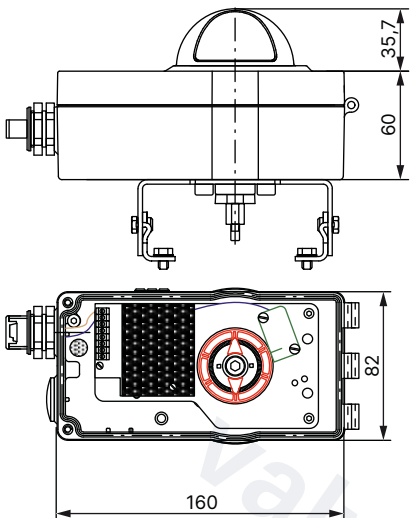
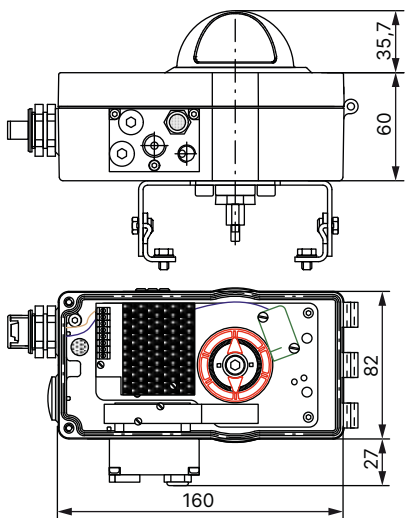
Technical Data	Without solenoid valve	With 3/2-way solenoid valve	With 5/2-way solenoid valve
Limit switch			
Manufacturer	Crouzet	Crouzet	Crouzet
Type	83.161.8 micro switch	83.161.8 micro switch	83.161.8 micro switch
Contacts	Gold	Gold	Gold
Plug-in card	ASi, 2 inputs, 1 output	ASi, 2 inputs, 1 output	ASi, 2 inputs, 1 output
Operating voltage	26.5...31 V DC	26.5...31 V DC	26.5...31 V DC
System connection	ASi cable connector M12 connector, male, 4-pin	ASi cable connector M12 connector, male, 4-pin	ASi cable connector M12 connector, male, 4-pin
Terminals	Screw-type terminals up to 1.5 mm ²	Screw-type terminals up to 1.5 mm ²	Screw-type terminals up to 1.5 mm ²
Ambient temperature	-10 °C...60 °C	-10 °C...55 °C	-10 °C...55 °C
Solenoid valve			
Bürkert Type	–	Type 6524 Article no. 302827 	Type 6525 Article no. 302828 
Ways	–	3/2	5/2
Operating voltage	24 V DC ^{1.)}	24 V DC	24 V DC
Nominal power	Max. 2.4 W ^{1.)}	0.8 W	0.8 W
Orifice	–	4 mm	4 mm
Supply/exhaust air	–	G 1/4, G 1/8	G 1/4, G 1/8
Article no.			
ASi cable connector	773149 	773145 	773146 
M12 connector	773292 	773288 	773298 

1.) If an external solenoid valve is connected.

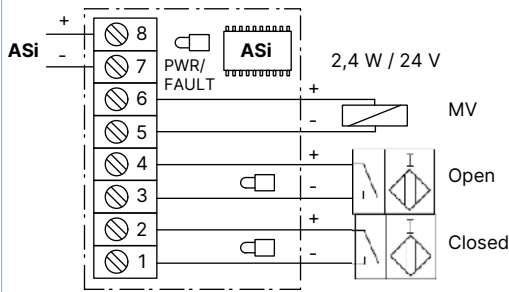
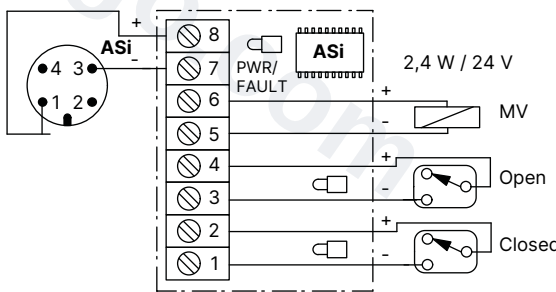
2.5. Type 1061 with inductive feedback and AS-Interface

Dimensions

Note:
Dimensions in mm, unless otherwise stated

Without solenoid valve	With 3/2-way solenoid valve / With 5/2-way solenoid valve
	

Terminal connection diagramm

		Programming information Profile: S-D.A.E IO code: D ID code: A ID1 code: 7 ID2 code: E 62 slaves
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Ordering chart

Technical Data	Without solenoid valve	With 3/2-way solenoid valve	With 5/2-way solenoid valve
Limit switch			
Manufacturer	Pepperl+Fuchs	Pepperl+Fuchs	Pepperl+Fuchs
Type	NBB2-V3-E2 inductive sensor	NBB2-V3-E2 inductive sensor	NBB2-V3-E2 inductive sensor
Contacts	Gold	Gold	Gold
Plug-in card	ASi, 2 inputs, 1 output	ASi, 2 inputs, 1 output	ASi, 2 inputs, 1 output
Operating voltage	26.5...31 V DC	26.5...31 V DC	26.5...31 V DC
System connection	ASi cable connector M12 connector, male, 4-pin	ASi cable connector M12 connector, male, 4-pin	ASi cable connector M12 connector, male, 4-pin
Terminals	Screw-type terminals up to 1.5 mm ²	Screw-type terminals up to 1.5 mm ²	Screw-type terminals up to 1.5 mm ²
Ambient temperature	- 25 °C...60 °C	- 10 °C...55 °C	- 10 °C...55 °C
Solenoid valve			
Bürkert Type	–	Type 6524 Article no. 302827	Type 6525 Article no. 302828
Ways	–	3/2	5/2
Operating voltage	24 V DC ¹⁾	24 V DC	24 V DC
Nominal power	Max. 2.4 W ¹⁾	0.8 W	0.8 W
Orifice	–	4 mm	4 mm
Supply/exhaust air	–	G 1/4, G 1/8	G 1/4, G 1/8
Article no.			
ASi cable connector	773150	773147	773148
M12 connector	773293	773290	773291

1.) If an external solenoid valve is connected.

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

Approval	Description		
	Optional: Explosion protection		
	Without solenoid valve	With 3/2-way solenoid valve	With 5/2-way solenoid valve
	Article no. 773153 EU-Type Examination Certificate: PTB 10 ATEX 1061 X ¹⁾ ATEX: II 2D Ex tb IIC T80 °C Db ²⁾ II 2G Ex eb ia IIC T6 Gb ²⁾	Article no. 773143 Article no. 773144 EU-Type Examination Certificate: PTB 00 ATEX 2032 X (Sensor) ¹⁾ PTB 07 ATEX 2048 (Solenoid valve) ¹⁾ ATEX: II 2G Ex ia IIC T6 Gb ²⁾	

1.) EU-Type Examination Certificate according to the producer
2.) ATEX classification according to type plate specification

4. Ordering information

4.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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4.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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