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.		
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		
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**
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

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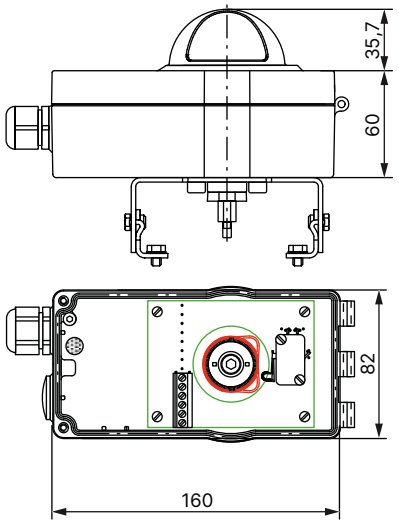
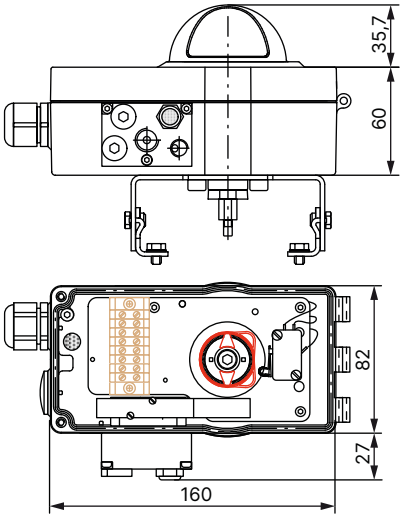
2. Product variants

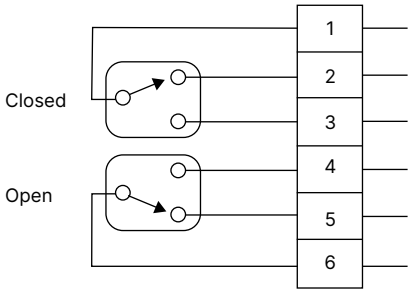
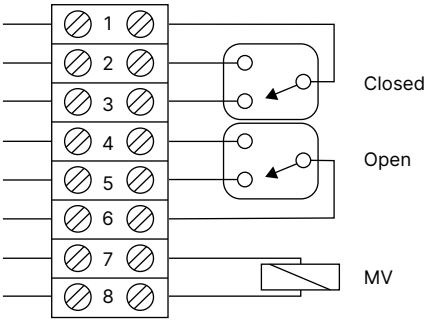
2.1. Type 1061 with electromechanical feedback

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 mm^2	Screw-type terminals up to 2.5 mm^2	Screw-type terminals up to 2.5 mm^2
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

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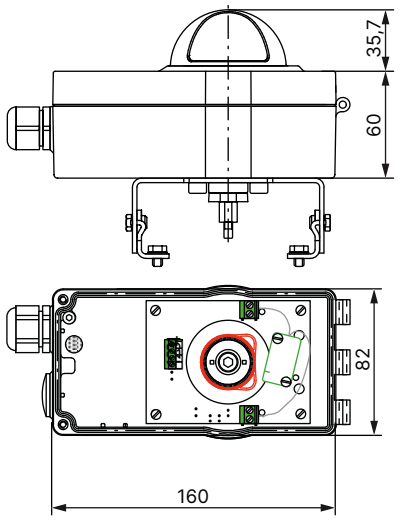
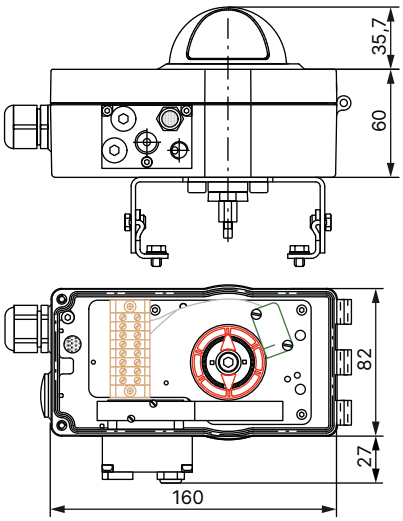
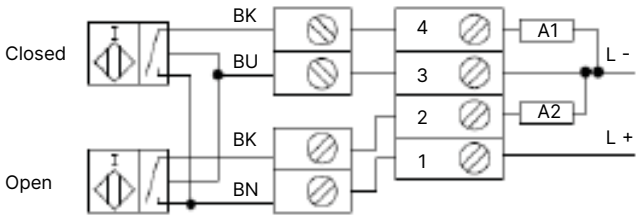
2.2. Type 1061 with inductive feedback

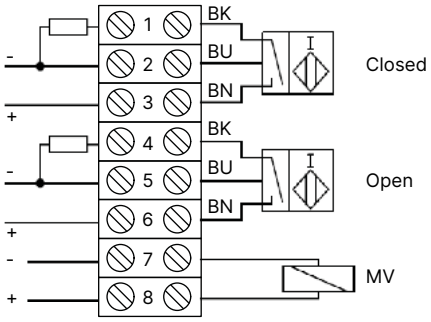
Dimensions

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





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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
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 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. 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.	773152	773141	773142

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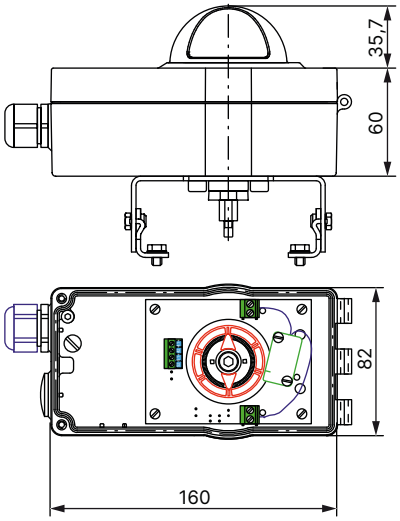
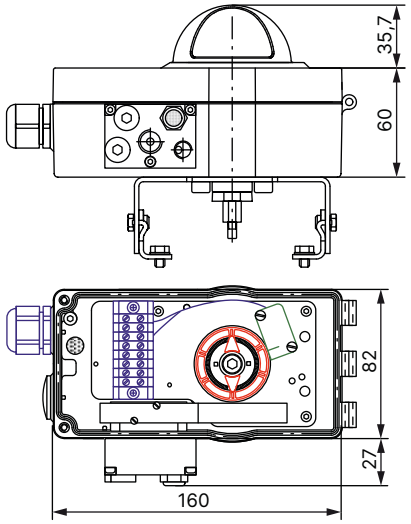
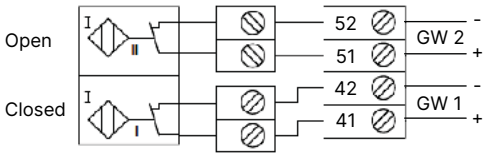
2.3. Type 1061 with inductive feedback – ATEX variant

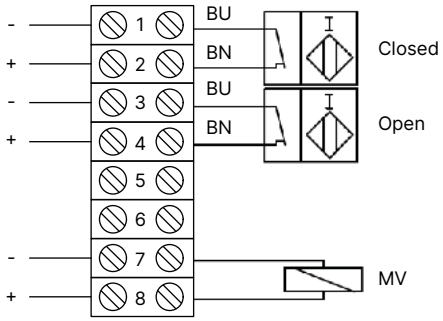
Dimensions

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 × 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. 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 ¼, G ⅛	G ¼, G ⅛
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

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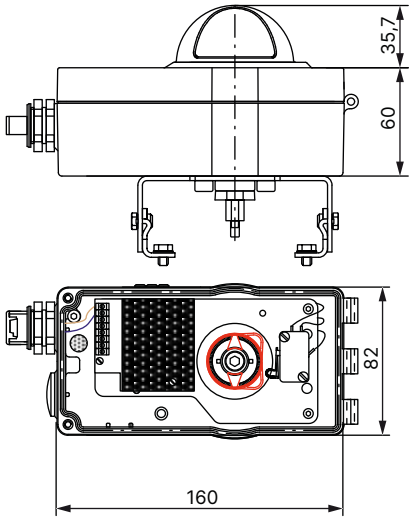
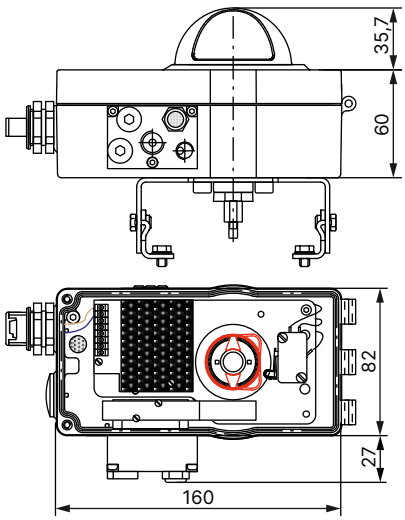
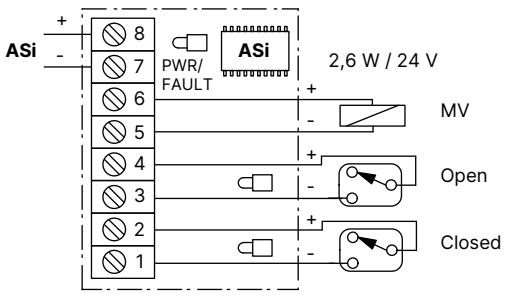
2.4. Type 1061 with electromechanical feedback and AS-Interface

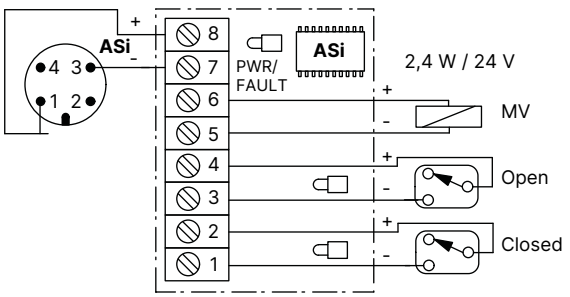
Dimensions

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 ¼, G ⅛	G ¼, G ⅛
Article no.			
ASi cable connector	773149	773145	773146
M12 connector	773292	773288	773298

1.) If an external solenoid valve is connected.

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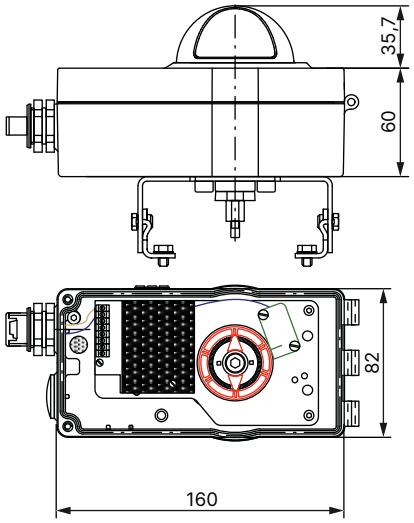
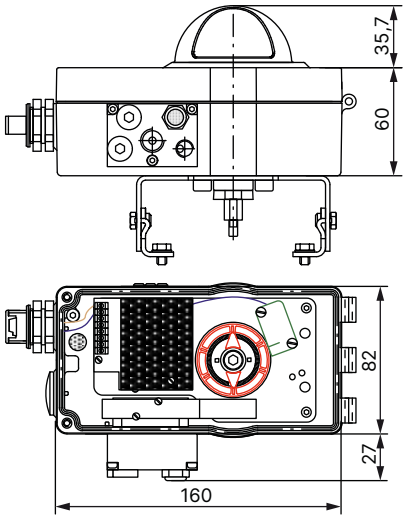
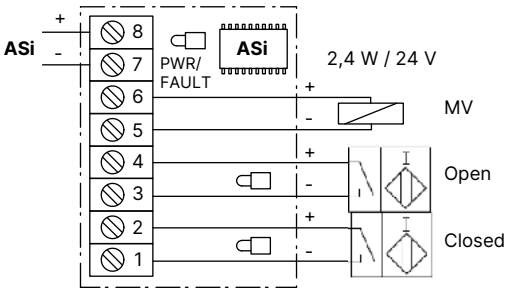
2.5. Type 1061 with inductive feedback and AS-Interface

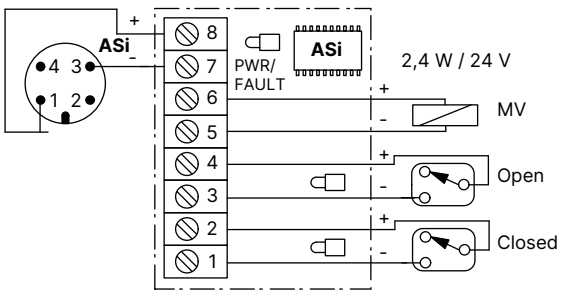
Dimensions

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

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 ¼, G ⅛	G ¼, G ⅛
Article no.			
ASi cable connector	773150	773147	773148
M12 connector	773293	773290	773291

1.) If an external solenoid valve is connected.

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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

<table>
<tr><th>Approval</th><th colspan="3">Description</th></tr>
<tr><td> </td><td colspan="3">Optional: Explosion protection</td></tr>
<tr><td></td><td>Without solenoid valve</td><td>With 3/2-way solenoid valve</td><td>With 5/2-way solenoid valve</td></tr>
<tr><td></td><td>Article no. 773153
EU-Type Examination Certificate:
PTB 10 ATEX 1061 X [1.)]

ATEX:
II 2D Ex tb IIIC T80 °C Db [2.)]
II 2G Ex eb ia IIC T6 Gb [2.)]</td><td colspan="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.)]</td></tr>
</table>

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

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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.

Order online now

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.

Try out our product filter

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