Article code

Positioner **Type 3731-**	**5**	**x**	**x**	**x**	**x**	**x**	**x**	**0**	**0**	**0**	**x**	**1**	**x**	**0**	**0**	**0**
With LCD and autotune, FOUNDATION™ fieldbus																
Explosion protection																
ATEX: II 2G Ex d IIC T6, T5, T4; II 2G Ex de IIC T6, T5, T4 Gb; II 2D Ex tb IIIC T80°C Db IP 66		2	1													
FM/CSA: Class I, Div. 1+2, Groups B, C, D; Class I, Zone 1, Groups IIB+H2; Class I, Div. 1+2 Groups E, F, G; Class III/ Class I, Zone 1, Group IIB+H2 T4...T6; Class I, Div. 1+2, Groups B, C, D T4...T6; Class II, Div. 1, Groups E, F, G		2	3													
JIS: Ex d IIC T6		2	7													
Options																
Without				0	0											
Binary input				0	3											
Forced venting				0	5											
Diagnostics																
EXPERT						1										
EXPERT+						2										
Electrical threaded connections																
2x M20 x 1.5							1									
2x ½ NPT							2									
Explosion protection certificates																
Same as specified table on explosion protection certificates											0					
IECEx: Ex d IIC T6, T5, T4 Gb; Ex d e IIC T6, T5, T4 Gb; Ex tb IIIC T80°C Db IP66		2	1								2					
GOST: 1Ex d IIC T6/T5/T4 Gb X; 1Ex d e IIC T6/T5/T4 Gb X; Ex tb IIIC T 80°C Db X		2	1								3					
Special applications																
Without													0			
Version compatible with paint (IP 41/NEMA 1)													1			
Special version																
Without														0	0	0

Network and positioner configuration with NI-FBUS™ configurator

The positioner can also be configured over the NI-FBUS™ configurator from National Instruments.

The NI-FBUS™ configurator can be used to perform the planning of the entire FOUNDATION™ fieldbus network. It also allows the use of PID Controller in the positioner to implement autonomous control in the field.

Electrical and bus connection

The Type 3731-5 Positioner with FOUNDATION™ fieldbus communication must be connected to bus segments conforming to IEC 61158-2. A shielded two-wire line is used for both supply power and data communication.

Mounting the positioner

The Type 3731-5 Positioner can be attached directly to the Type 3277 Actuator over a connection block. In actuators with fail-safe action "actuator stem extends" and Type 3277-5 Actuator (120 cm²), the signal pressure is routed over an internal hole in the actuator yoke to the actuator. In actuators with fail-safe action "actuator stem retracts" and in actuators with effective diaphragm areas of 240 cm² or larger, the signal pressure is routed to the actuator over ready-made external piping.

Using the appropriate bracket, the positioner can also be attached according to IEC 60534-6-1 (NAMUR recommendation). The positioner can be mounted on either side of the control valve. A pair of universal brackets is used for the attachment to Type 3278 Rotary Actuators or other rotary actuators according to VDI/VDE 3845. The rotary motion of the actuator is transferred to the positioner over a coupling wheel.

The characteristic is set over the software.

Ordering text

- Type 3731-5... Positioner
- With pneumatic connecting rail ISO 228/1-G ¼
- Without/with pressure gauge for signal pressure indication
- Attachment to Type 3277 Actuator (175 to 700 cm²)
- Attachment according to IEC 60534-6-1 (NAMUR)
- Travel: ... mm, if applicable, rod diameter: … mm
- Attachment to Type 3278 Rotary Actuator (160 cm²)
- Attachment to rotary actuators according to VDI/VDE 3845
- Pneumatic reversing amplifier for double-acting actuators with connection acc. to ISO 228/1-G ¼ or ¼-18 NPT

Specifications subject to change without notice

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