



Smart valve monitor Type 3738 Electronic Valve Position Monitor

- Automation of on/off valves
- Compact attachment acc. to VDI/VDE 3845 with integrated air lines
- Two-wire supply from just one NAMUR contact
- Intrinsically safe
- Wear-free, contactless position sensing
- Self-calibrating limit switches
- Integrated diagnostic functions
- Use in safety instrumented systems possible

Technical data

NAMUR contacts acc. to EN 60947-5-6	Two limit switches for end positions One contact for monitoring the valve movement test One fault alarm contact
Electrical auxiliary power	Supplied by NAMUR contact
Permissible ambient temperature	-25 to 80 °C
Measuring system	Contactless magnetostrictive sensor system
Permissible operating range	30 to 170°
Degree of protection	IP 66
Safety approval (applied for)	TÜV/IEC 61508, can be used up to SIL 2 in single-channel version (up to SIL 3 in redundant version)
Type of protection	II 2 G Ex ia IIC T6, II 2 D Ex ia D 21 T 80°C
Operation	Configuration using rotary pushbutton
Attachment	VDI/VDE 3845, any mounting position

Version with integrated solenoid valve

Version	3/2-way or 5/2-way function (using a molded seal)
K_{vs}	0.32
Supply air	2.4 to 6 bar
Service life	1,000,000 switching cycles
Nominal voltage	24 V DC

Version with external solenoid valve

Observe manufacturer's specifications for the solenoid valve used
Maximum permissible switching capacity of 24 V DC, max. 18 W

Functions

- Automatic initialization for simple start-up
- Solenoid valve status indicated by LED
- Valve movement test (VMT) to verify the operability of the on/off valve
- Rotary motion counter, temperature indication, operating hours counter