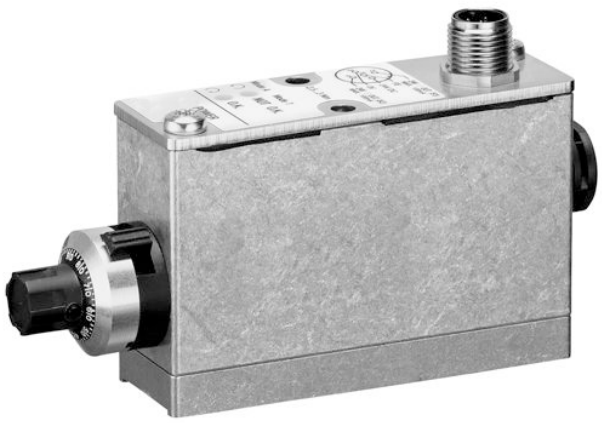
Pneumatic position monitoring, Series MS01

2024-04-04

R412011545

Series MS01

The AVENTICS Series MS01 is a pneumatic position monitoring that can be integrated into every machine controller as a block solution with the CD01 valve system, which means minimal assembly and installation effort for the user. The measuring system can be mounted on a plastic base plate with a push-in fitting or an aluminium base plate with thread connection. This ensures a solid construction according to ISO standard 15407-1.



Technical data

Industry	Industrial
Standards	ISO 15407-1
Standards	26 mm
Type	MS01 test module
Electrical connection	Plug
Electrical connection	M12
Electrical connection	5-pin
Grid dimension	27 mm
Certificates	CE declaration of conformity
Compressed air connection	base plate DIN ISO 15407-1
Min. working pressure	2.7 bar
Max. working pressure	3.3 bar
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Min. medium temperature	0 °C
Max. medium temperature	50 °C
Medium	Compressed air
Max. particle size	5 µm
Min. oil content of compressed air	0 mg/m³

Max. oil content of compressed air	0.1 mg/m³
Max. cleaning pressure	10 bar
Operational voltage DC	24 V
Voltage tolerance DC	-10% / +10%
Protection class	IP67
Duty cycle	100 %
Min. detection distance	0.01 mm
Max. detection distance	0.3 mm
Housing material	Aluminum
Material front cover	Stainless Steel
Weight	0.282 kg
Part No.	R412011545

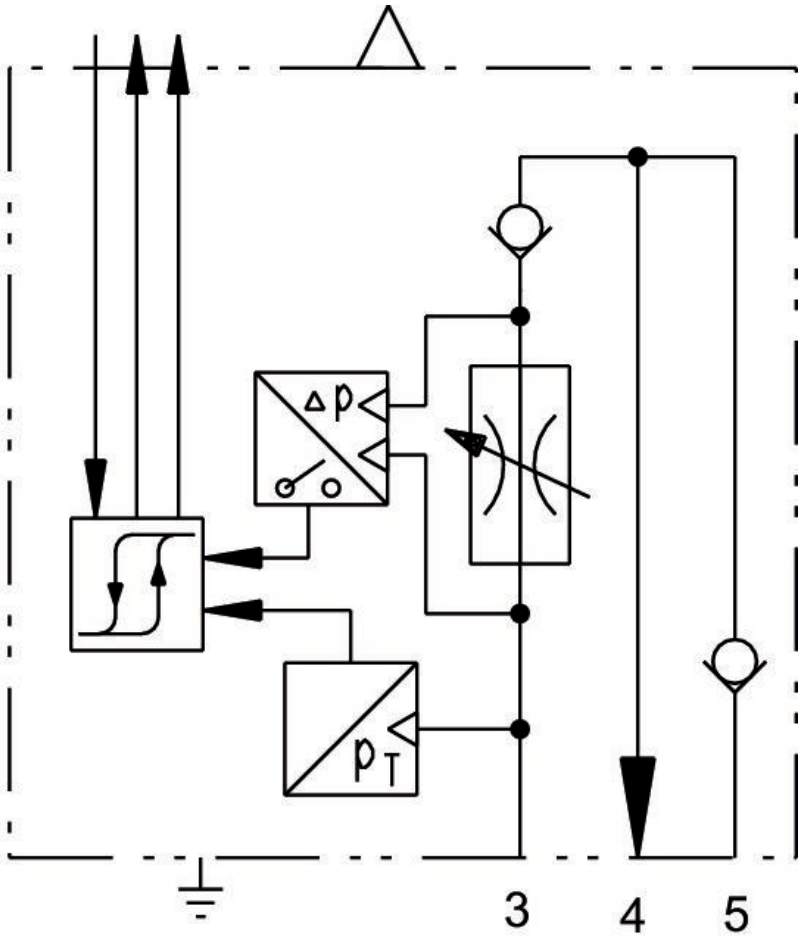
Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

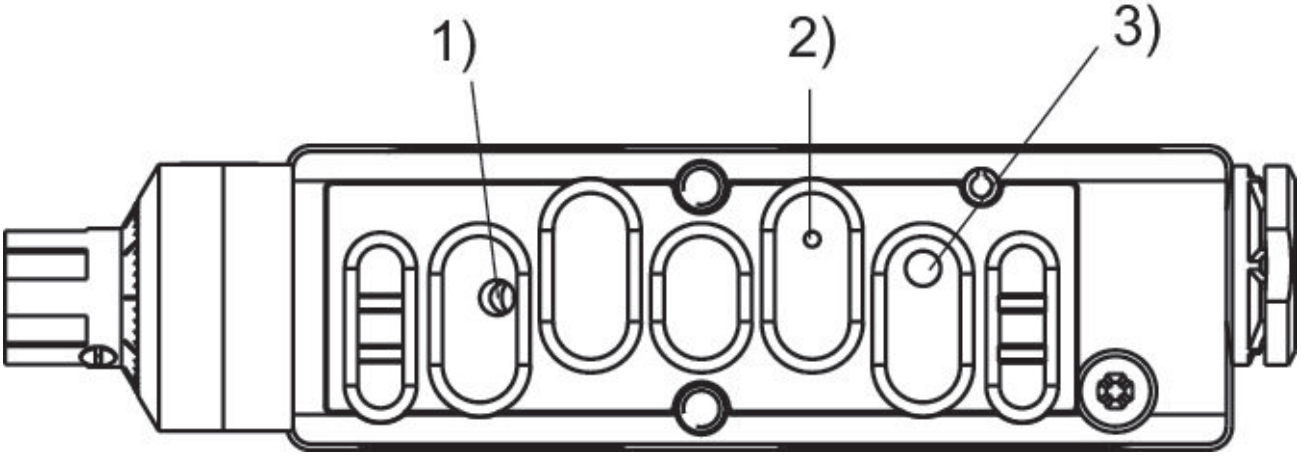
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Circuit symbol

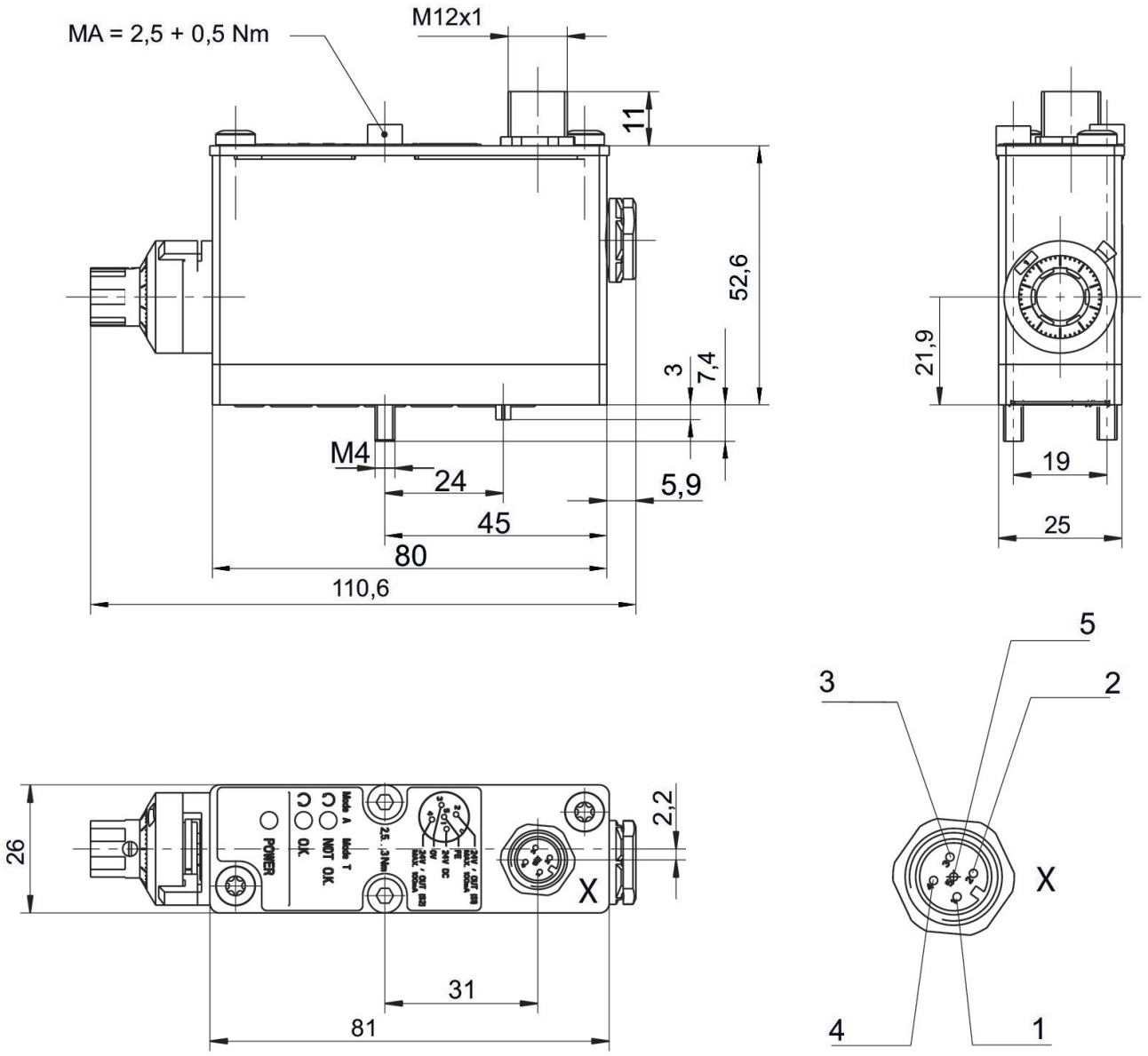


Pneumatic interface



For use with a subbase with ISO 15407-1 hole pattern 1 = test pressure 2 = nozzle connection 3 = cleaning pressure

Dimensions



M12 contact assignment: contact 1: 24 V DC contact 2: output signal 24 V DC, S1 (working pressure), max. 100 mA contact 3: 0 V contact 4: output signal 24 V DC, S2 (testing), max. 100 mA contact 5: FE