Proportional pressure control valve VPPM-12L-L-1-G12-0L6H-A4P-S1

Part number: 575242

Data sheet

Exhaust nominal width12 mmActuation typeElectricalSealing principleSoftMounting positionAnyStructural designPilot-controlled diaphragm regulatorShort-circuit protectionFor all electrical connectionsSafety instructionsVPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.Reverse polarity protectionfor all electrical connectionsReverse polarity protectionMechanical springType of controlPilot-controlledValve function3-way proportional pressure control valveDisplay typeLEDPressure regulation range0.06 bar6 barInlet pressure 10 bar8 barMax, pressure 1 MPa0 MPa0.6 MPaDC operating voltage range21.6 \lambda \lambda \lambdaDuty cycle100%Max, current consumption500 mADuty cycle10%Switching outputPNPAnalog output signal range4 - 20 mAAnalog output signal range4 - 20 mAOperating wediumCompressed air as per IS0 8573-1:2010[7:4:4] Inert gas	Feature	Value
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Interpressure 1O bar8 barInlet pressure 1 MPaO MPa0.8 MPaMax. pressure hysteresis0.03 barStandard nominal flow rate4500 l/minDC operating voltage range21.6 V26.4 VMax. current consumption500 mADuty cycle100%Max. electrical power consumption12 WResidual ripple10 %Switching output9NPAnalog output signal range4 - 20 mAAnalog input signal range4 - 20 mAOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Pressure regulation range MPa	0.006 MPa0.6 MPa
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Duty cycle100%Max. electrical power consumption12 WResidual ripple10 %Switching outputPNPAnalog output signal range4 - 20 mAAnalog input signal range4 - 20 mAOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	DC operating voltage range	21.6 V26.4 V
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Residual ripple10 %Switching outputPNPAnalog output signal range4 - 20 mAAnalog input signal range4 - 20 mAOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Duty cycle	100%
Switching output PNP Analog output signal range 4 - 20 mA Analog input signal range 4 - 20 mA Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Max. electrical power consumption	12 W
Analog output signal range 4 - 20 mA Analog input signal range 4 - 20 mA Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Residual ripple	10 %
Analog input signal range 4 - 20 mA Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Switching output	PNP
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas	Analog output signal range	4 - 20 mA
Inert gas	Analog input signal range	4 - 20 mA
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Feature	Value
Certification	RCM compliance mark c UL us - Listed (OL)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E322346
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	10 °C50 °C
Degree of protection	IP65
Ambient temperature	0 °C60 °C
Product weight	2050 g
Linearity	1 %FS
Hysteresis	0.5 %FS
Reproducibility	0.5 %FS
Overall accuracy	1.25 %FS
Temperature coefficient	0.04 %/K
Repetition accuracy FS	0.5 %
Electrical connection	8-pin M12 Plug
Type of mounting	With through-hole With accessories Optionally:
Pneumatic connection 1	G1/2
Pneumatic connection 2	G1/2
Pneumatic connection 3	G1/2
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Anodized