

MPS-EP Series

Miniature Pressure Switch

TAE LCO

Description

The MPS-EP series, developed by TAE LCO, is engineered for aerospace and military mission-critical applications. These include demanding uses such as missile combustion chamber actuation, rocket launch activation, and high-pressure fuel tank monitoring systems.

Designed to operate reliably in challenging environments, the MPS-EP series offers complete immunity to electromagnetic interference (E3) due to its inherently fully mechanical design.



MPS-EP Series Specifications

Functional Specifications	
Switch Type	SPST/Normally Open
Sealing	Hermetically sealed
Media	Liquid, Gas, Exhaust
Actuation Value	600 ± 150 psi
Proof Pressure	3000 psi

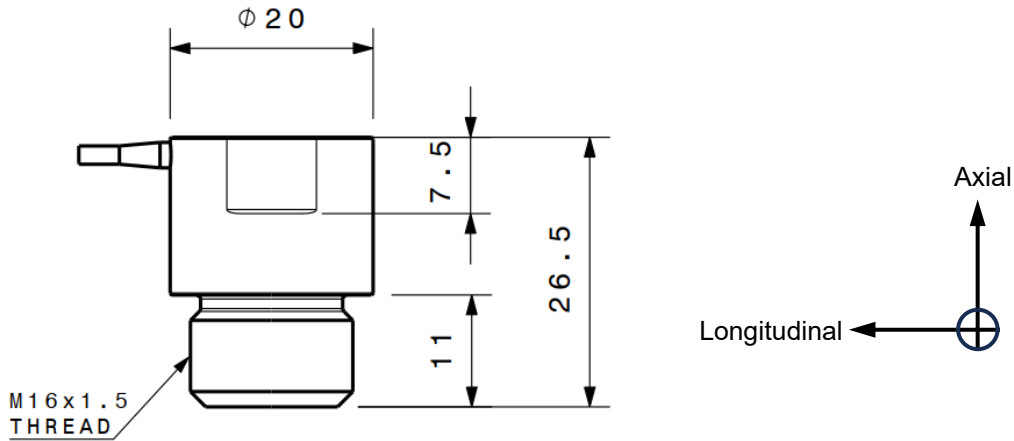
Environmental Specifications	
Low Temp (Storage)	-55 °C DO-160G Section 4.5.1
Low Temp (Operating)	-55 °C DO-160G Section 4.5.2
High Temp (Storage)	+125 °C IEC 60068-2-2
High Temp (Operating)	+125 °C IEC 60068-2-2
Shock	100ms 45G (longitudinal axis, see Dimensions and Interfaces)
Vibration	Random: 15 to 2000 Hz @ approx. 50G (peak) MIL-STD-810G, Method 514.6
Altitude (Storage)	45000 feet per MIL-STD-810G CHG-1, Method 500.6-P.I
Altitude (Operating)	45000 feet per MIL-STD-810G CHG-1, Method 500.6-P.II
Salt Fog	MIL-STD-810G CHG-1, Method 509.6
Sealing	IP67, IEC-60529

Electrical Specifications	
Resistive Load	2A (@ 28VDC or 115VAC, 60Hz)
Inductive Load	0.5A (@ 28VDC or 115VAC, 60Hz)
DWV	1000 Vrms
Electrical interface	2 x lead wire (26AWG, M27500 spec.)

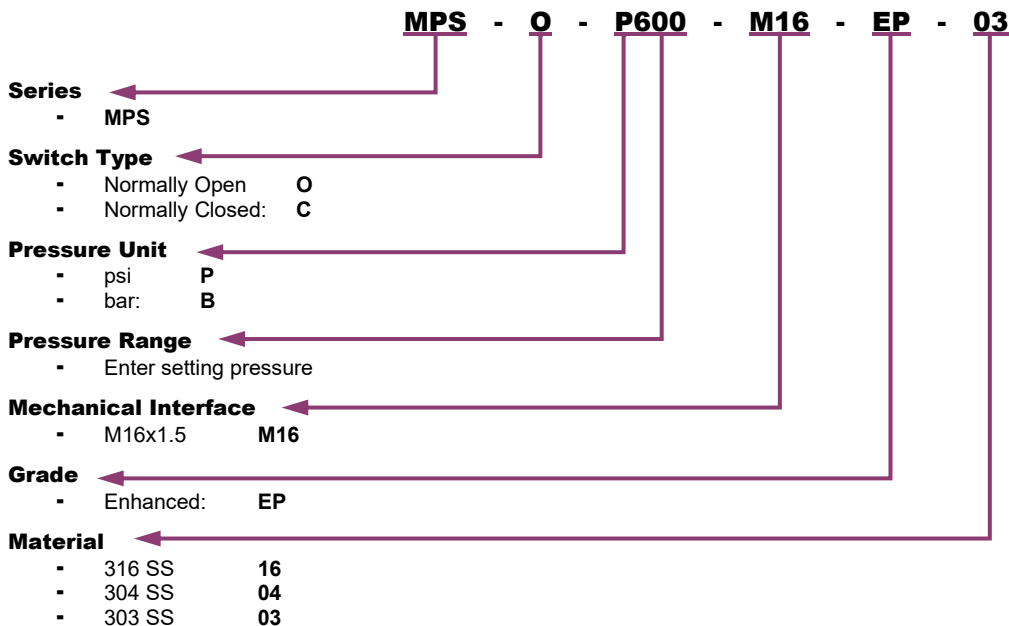
Mechanical Specifications	
Material	303 Stainless Steel
Weight	40g (max.)
Mounting Torque	5.0Nm
Diameter	20.0mm
Length	26.5mm
Thread Length	11.0mm
Thread	M16x1.5
Warranty	24 months

Dimensions and Interfaces

Housing & Pressure Interface



Ordering Information



Typical ordering example: Normally open, 600 PSI pressure, M16x1.5 mechanical interface, Enhanced Grade, 303 SS material, 10cm lead wire as standard: **MPS-O-P600-M16-EP-03**

For stock and price inquiry please contact us at: sales@taelco.com or www.taelco.com/en/contact-us/
Shipping, customs fees etc. are not included in the price quotation. TAE LCO is not responsible for customs clearance.

Revision History

Revision	Reasons for Revision	Issue Date
REV A	<ul style="list-style-type: none">First revision.	10.09.2025

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