

SUCO 0510/0511 NPT1/4 ELECTRONIC PRESSURE SWITCH

Adjustable by user

0510400097013
NO, 0 - 4 Bar, NPT 1/4, TPE, DIN EN 175301-803-A



- Single Switch Point
- Small & Compact
- Ceramic Sensor
- Stainless Steel Housing

PRODUCT DESCRIPTION

The SUCO 0510/0511 series combines a compact stainless-steel (AISI 303) hex-24 housing with a high-performance ceramic thick-film sensor, offering exceptionally reliable, switchable pressure monitoring. Users can adjust the switching point and hysteresis on-site, covering ranges from just 0–2 bar up to 0–600 bar, with dual output configurations (NO or NC, PNP 500 mA capability), and visual LED status indication for easy diagnostics. They're designed to withstand overpressure of up to 2× rated pressure and meet IP67 protection when paired with sealed connectors. Installation versatility is further enhanced by an array of electrical (AMP Superseal, Deutsch, DIN, M12, cable) and process (1/4-inch NPT, BSP, UNF, metric) connection options.

This series is ideal for OEM and industrial systems that require compact, field-adjustable pressure monitoring. It excels in hydraulic and pneumatic applications—such as construction equipment, material handling, and mobile machinery—where ruggedness and precision under harsh conditions are essential. The ceramic sensor resists corrosion and is unaffected by contact wear, making it suitable for systems with vibration, fluid contamination, or wash-down environments. With its PNP switching logic and adjustable hysteresis, it integrates smoothly into PLCs or relay-based controls for safety interlocks, pressure alarms, or automated shutdowns. Its robust overpressure tolerance and durable housing also make it a solid choice for mobile hydraulics and fluid processing where long-term reliability is critical.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	4 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Process connection	1/4 NPT
Function	Normally open
Output	PNP
Burst pressure	20 bar
Pressure max	10 bar

TEMPERATURE & MATERIALS DATA

Temperature of media from	-30 °C
Temperature of media to	110 °C
Temperature ambient from	-30 °C

DIN EN 175101-80-A

Pins	Assignment
1	U ₁
2	Grd
3	U ₂
4	U ₃

IP67

✕ = 60 mm anti-static shield
✕ = 77 mm anti-static shield

Order number: 013

M 12 – DIN EN 60796-2-101 A

Pins	Assignment
1	U ₁
2	Grd
3	U ₂
4	U ₃

IP67

✕ = 54 mm

Order number: 002

ISO 15110-A1-1

Pins	Assignment
1	U ₁
2	Grd
3	Grd
4	U ₂

IP67, IP68

✕ = 56 mm

Order number: 004



Diagram of AMP Superseal 1.5. The diagram shows a yellow cylindrical component with three pins labeled 1, 2, and 3. Pin 1 is the top pin, Pin 2 is the middle pin, and Pin 3 is the bottom pin.

Pin	Assignment
1	Blue
2	Gold
3	Grey

PS7

X = 60 mm

Order number: 007

[illegible]

	no / nc	
○ 1	(+)	
○ 2	(GND)	
○ 3	(OUT)	

DIN EN 175001-403-A		M 12 – DIN EN 61076-2-100-A		ISO 15710-A1-1	
Pin	Assignment	Pin	Assignment	Pin	Assignment
1	Mod	1	Mod	1	Mod
2	Cont	2	Cont	2	Cont
3	Mod	3	Mod	3	Mod
4	Mod	4	Mod	4	Mod
<p>Pin 5</p> <p>• 60 mm outer diameter (M 12)</p> <p>• 77 mm outer diameter (M 16)</p>		<p>Pin 5</p> <p>• 54 mm</p>		<p>Pin 5</p> <p>• 54 mm</p>	
Order number: 013		Order number: 002		Order number: 004	

AMP Superseal 1.5°

Pin	Assignment
1	Gun
2	Gun
3	Spray

Ø 55

Deutsch-DT04-3P

Pin	Assignment
A	Spray
B	Gun
C	Spray

Ø 55

Order number: 007

Order number: 018