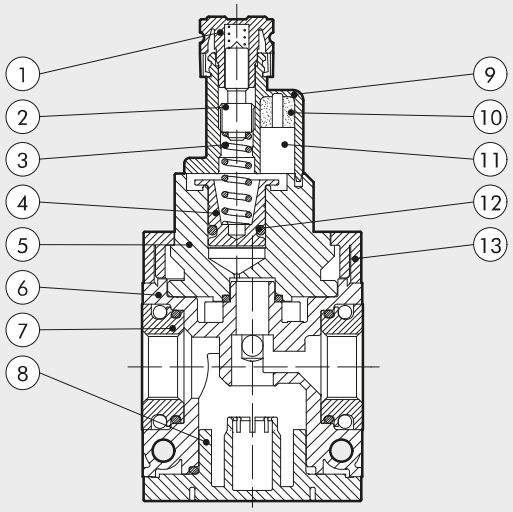
Syntesi® pressure switches feature a high degree of miniaturisation and a modern attractive design.
As they are extremely modular, the Syntesi® series can be installed facing up or down.
They come ready assembled with a 2-metre cable or an M8 connector with a 300-mm cable.
The contact is the switching type, which means it can be normally open or normally closed.
It can be regulated via a knurled push-lock handle.
On the front and back there is a port (1/8" for size 1 and 1/4" size 2) that can be used with pressure gauges or as an additional air intake.



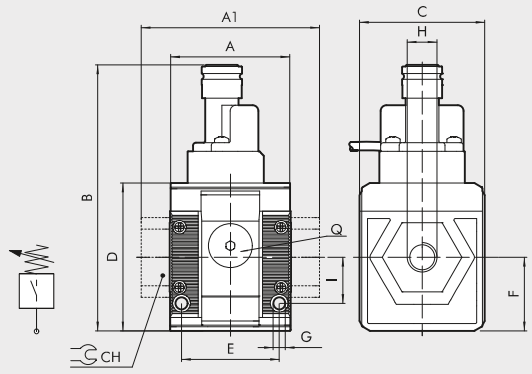
TECHNICAL DATA		SY1 PRESSURE SWITCHES			SY2 PRESSURE SWITCHES			
Threaded port		1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Adjustable pressure interval	bar	0.5 ÷ 10			0.5 ÷ 10			
Hysteresis (not adjustable)	bar	From 0.4 to 0.8 (See diagram)						
Maximum pressure	bar	15			13			
	MPa	1.5			1.3			
	psi	217			188			
Min/Max temperature at 10 bar; 1 MPa; 145 psi	°C	From -10 to 50			From -10 to 50			
Maximum current	A	2			2			
Maximum voltage	V	250			250			
Outside diameter of cable	mm	4.9			4.9			
Number of wires and cross section		3 x 0.5 mm^2			3 x 0.5 mm^2			
Contacts		Normally-Open (NO) and Normally-Closed (NC)						
Protection		IP65			IP65			
Number of switchings		5 x 10^6			5 x 10^6			
Fluid		Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous						
Mounting position		In any position						
Additional air take-off, for pressure gauges or fittings		1/8", front and rear			1/4", front and rear			
Additional air take-off flow rate at 6.3 bar	Nl/min	500			1500			
(0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	scfm	18			53			
Wall fixing screws		No. 2 M4 screws			No. 2 M5 screws			
Weight	g	255	250	241	443	416	412	400

COMPONENTS

① Technopolymer adjusting "push lock" handle
② OT58 brass adjusting screw
③ Steel piston spring
④ OT58 brass piston
⑤ Aluminium top plug
⑥ Technopolymer body
⑦ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
⑧ Technopolymer bottom plug
⑨ Technopolymer pressure switch body
⑩ Resin finish for IP65
⑪ Electrical contact
⑫ O-ring NBR gasket
⑬ Technopolymer flange

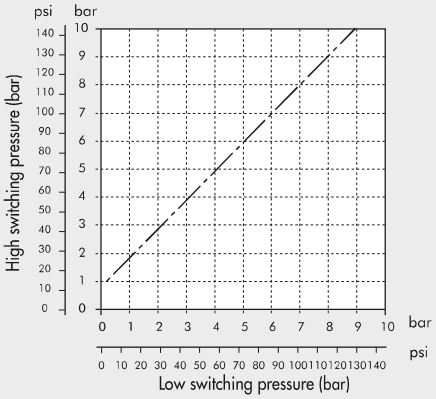


DIMENSIONS



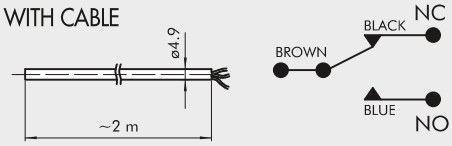
	SIZE 1			SIZE 2			
H (threaded port)	1/8″	1/4″	3/8″	3/8″	1/2″	3/4″	1″
A	42			61			
A1	-	-	44	-	-	95	95
B	93			101			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	33.5			47.5			
F	25.6			32.5			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
Q (no. 2 additional air takes-off)	1/8″			1/4″			

HYSTERESIS GRAPH

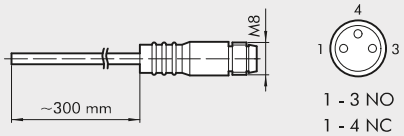


WIRING DIAGRAM

VERSION WITH CABLE



VERSION WITH M8 CONNECTOR



1 - 3 NO
1 - 4 NC

KEY TO CODES

56	1	1	S	10	1
SYNTESI	**SIZE**	**THREADED INPUT CONNECTION**	**ELEMENT**	**TYPE**	**THREADED OUTPUT CONNECTION**
56 Syntesi	**1** Size 1	**0** Without bushing **1** 1/8″ port **2** 1/4″ port **3** 3/8″ port	**S** Pressure switches	**10** 2 m cable **20** 300 mm cable with M8 connector	**0** Without bushing **1** 1/8″ port **2** 1/4″ port **3** 3/8″ port
	2 Size 2	**0** Without bushing **3** 3/8″ port **4** 1/2″ port **5** 3/4″ port **6** 1″ port			**0** Without bushing **3** 3/8″ port **4** 1/2″ port **5** 3/4″ port **6** 1″ port

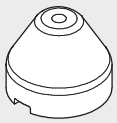
PURCHASE ORDER CODES HAVING A MORE FREQUENT USE

N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes.

Code	Description
Syntesi® SY1 PRESSURE SWITCHES	
5610S100	Pressure switch 2 m cable SY1 without bushings
5611S101	Pressure switch 2 m cable SY1 1/8
5612S102	Pressure switch 2 m cable SY1 1/4
5613S103	Pressure switch 2 m cable SY1 3/8
5610S200	Pressure switch M8 SY1 connector without bushings
5611S201	Pressure switch M8 connector SY1 1/8
5612S202	Pressure switch M8 connector SY1 1/4
5613S203	Pressure switch M8 connector SY1 3/8

Code	Description
Syntesi® SY2 PRESSURE SWITCHES	
5620S100	Pressure switch 2 m cable SY2 without bushings
5623S103	Pressure switch 2 m cable SY2 3/8
5624S104	Pressure switch 2 m cable SY2 1/2
5625S105	Pressure switch 2 m cable SY2 3/4
5626S106	Pressure switch 2 m cable SY2 1
5620S200	Pressure switch M8 SY2 connector without bushings
5623S203	Pressure switch M8 connector SY2 3/8
5624S204	Pressure switch M8 connector SY2 1/2
5625S205	Pressure switch M8 connector SY2 3/4
5626S206	Pressure switch M8 connector SY2 1

ACCESSOIRES: SECURITY KNOB



Code	Description
9200703	Security knob

NOTE: Pull outwards to remove the knob from the pressure switch on the unit. Insert the security knob and regulate the pressure switch. Then press the handle firmly to lock it in position. If the pressure switch needs to be reset, remove the security knob by forcing it laterally with a screwdriver.