DIGITAL PRESSURE SWITCH

The digital pressure switch allows both the transmission of electrical pressure signals and the instant display of pressure. Two digital outputs, which can be set according to the two pressure values reached, are available. An analogue output of a voltage proportional to the pressure reading is also available. The values are clearly displayed on a LED video and different parameters can be entered from the keypad. Hysteresis can be adjusted and the unit of measurement for pressure can be modified. Two models are available:

Series **600**, characterised by G1/8" female pneumatic ports, one at the bottom and one at the back (pressure switch supplied with bottom port covered with a removable plug); one-colour LED; pre-wired cable.

Series **640**, characterised by R1/8" male pneumatic ports (taper thread) and M5 female thread inside on the rear side; two-colour LED displays that can be programmed depending on the pressure signal; cable with connector. It is available in analog and IO-Link versions.

A kit of accessories is provided for fixing to the top or wall, or to a panel.

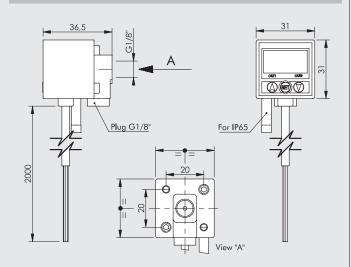


TECHNICAL DATA		SERIES 600	SERIES 640	SERIES 640 IO-Link
Fieldbus			-	IO-Link version 1.1
Working pressure range		-1 to 10 bar / -0.1 to 1 MPa		
Maximum admissible pressure		15 bar / 1.5 MPa		
Readable resolution		0.01 bar / 0.001 MPa / 0.01 kg/cm² / 0.1 psi		
Power supply	VDC		6, max ripple 10%	24, Ripple (P-P) ≤10%
Current consumption	mA	≤ 55	≤ 40	≤35 (no load)
Outputs		-		OUT 1: IO-Link (C/Q Line) or PNP or NPN configurable
				OUT 2: Analogue or PNP or NPN configurable
Digital outputs	P	PNP: Number of outputs: 2	PNP: Number of outputs: 2	PNP: Open collector output
Digital colpois		Max current: 80 mA	Max current: 125 mA	Max current: 150 mA
		Max voltage: 24 VDC	Max voltage: 24 VDC	Max voltage: 24 VDC
		Residual voltage: ≤ 1V (at 80 mA)	Residual voltage: ≤ 1.5V (at 125 mA)	Residual voltage: ≤ 1V
		Residual Vollage. S 1 V (al 60 IIIA)	Residual Vollage. S 1.5V (al 125 IIIA)	NPN: Open collector output
				Max current: 150 mA
				Max voltage: 30 VDC
		. /51/ 0.50/10		Residual voltage: ≤ 1V
Analogue output			ar - 5V; it doesn't read the vacum)	1/5V, 0/10V, 4/20 mA configurable
			1% full scale	Linearity ± 1.5% full scale
		Output impede	ance: about 1 kΩ	1/5V - 0/10V (impedance 1 kΩ),
				4/20 mA (impedance 500 Ω)
Digital output repeatability			\leq ± 0.2% full scale ± 1 digits	
Hysteresis		Adjustable or fixed at 3 digits for operation within a pressure range		
Actuation response time	ms		≤ 2.5	
Interference suppression selectable at	ms	24, 192, 768	25, 100, 250, 5	500, 1000, 1500
Short-circuit protection at the outputs			Yes	
LED 7 segment display			3 ½ digit display	
Display colours		red red/green		
Display accuracy		±2% full scale ±1 digit, ambient temperature 25° ±3°C		
Indicators		green LED (output 1), red LED (output 2)	orange LED (output 1 and output 2)	Green or Red LED configurable
Thermal characteristic			the calibration pressure (at 25°C), in the temper	
Compressed air ports		2 G1/8" female thread		read (M5 female inside)
Power cable		, , , , , , , , , , , , , , , , , , , ,	2 m, with five 0.15 mm ² wires, oil-resistant	
		pre-wired cable, not removable	The state of the s	e connector
Communication speed	Kbps	p. 6 6	-	38.4 (COM2)
Vendor ID / Device ID	Ttops			1046 (hex 0x0416) / 72 (hex 0x000048)
Minimum cycle time	me		_	3
Process data length	ms			2 byte di Input (2 bit BCD;14 bit PDV)
Weight		105, including 2 m cable	الديام المالية	ng 2 m cable
vveigiii	9	103, including 2 in cable	oo, includii	ig 2 iii cable
AMBIENT CONDITIONS				
Fluid		Filtered and	d unlubricated air, inert non-corrosive and non-	explosive aas
Degree of protection			sory protection assembled)	IP 40
Temperature range	°C	ii 40 ii 00 (Willi deces.	0 to 50	11 40
Storage temperature		-20 to +60, but without condensate or ice		out condensate or ice
		-20 to +00, but williout condensate of ice		our condensale or ice
Ambient humidity		35 to 85% relative humidity; no condensate		
Insulation voltage		1000 VAC for one minute between casing and cable		
Resistance of Insulation		Min. 50 M Ω minimo (at 500 VDC between casing and cable) 1.5 mm amplitude or 10G with scanning every minute from 10 to 55 Hz at 10 Hz, for 2 hours in each direction x, y and z		
Vibration admitted				
Impact	9	80 m/s 2 (100 g), 3 times in each direction x, y and :	z 100 m/s² (10 g), 3 times i	in each direction x, y and z

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SERIES 600

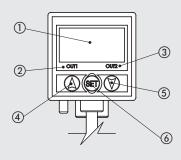
DIMENSIONS AND ORDERING CODES



Description Code

Digital pressure switch series 600 9000600

USER INTERFACE

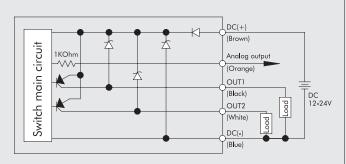


- 3 ½ digit display, red: showing the pressure reading, all setting information, and the error code
 Digital output 1: green LED
 Digital output 2: red LED

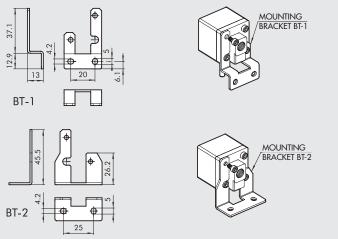
- Button: modifies the value of the selected parameter
 Button: modifies the value of the selected parameter
- 6 Setting button: selects the parameter to modify

WIRING DIAGRAM

PNP output



FIXING BRACKET KIT

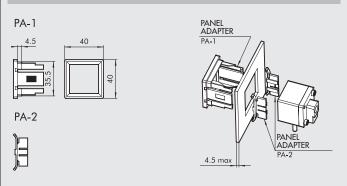


Code Description

9000601 Kit of fixing brackets for digital pressure switches series 600

N.B.: Each kit contains a bracket for fixing on the back and one for fixing at the bottom.

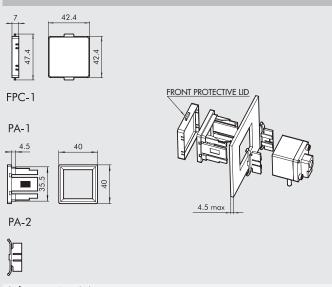
PANEL FIXING KIT



Description

9000602 Kit for panel fixing for the digital pressure switch series 600

PANEL FIXING KIT WITH PROTECTION

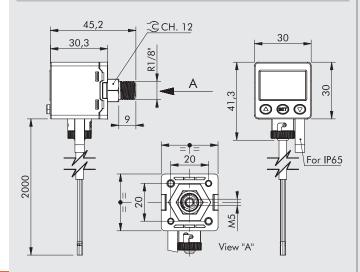


Code Description

9000603 Kit for panel fixing with protection for the digital pressure switch series 600

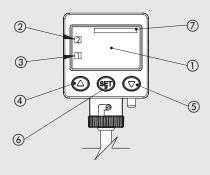
SERIES 640

DIMENSIONS AND ORDERING CODES



Description Code Digital pressure switch series 640 9000640

USER INTERFACE

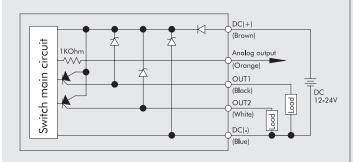


- ① 3 ½ digit display, green and red: it displays the unit of measurement, 3 ½ aigit display, green and red: it displays the unit of measure the pressure value read, all setting information, the error code.
 Digital output 1: orange LED
 Digital output 2: orange LED
 Button: modifies the value of the selected parameter
 Button: modifies the value of the selected parameter
 Setting button: selects the parameter to modify

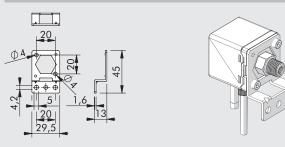
- Unit of measurement selected

WIRING DIAGRAM

PNP output



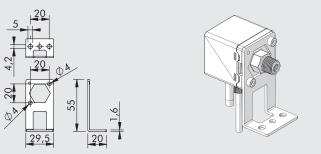
PARALLEL FIXING BRACKET KIT



Code Description

9000641 Parallel fixing bracket kit for digital pressure switch series 640

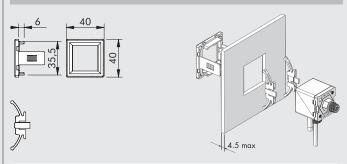
90° FIXING BRACKET KIT



Code Description

9000644 90° fixing bracket kit for digital pressure switch series 640

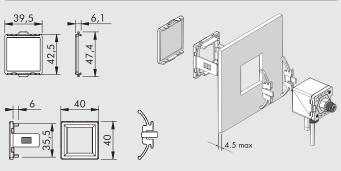
PANEL FIXING KIT



Code

9000642 Kit for panel fixing for the digital pressure switch series 640

PANEL FIXING KIT WITH PROTECTION



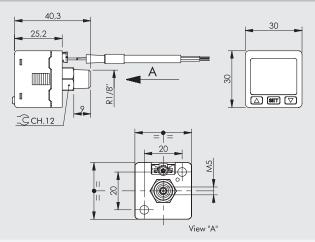
Code Description

9000643 Kit for panel fixing with protection for the digital pressure switch series 640

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SERIES 640 IO-Link

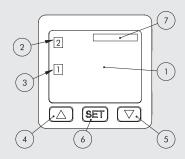
DIMENSIONS AND ORDERING CODES



Code Description

9000640L Digital pressure switch series 640 IO-Link

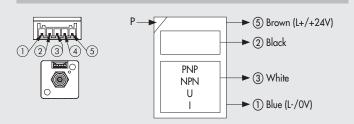
USER INTERFACE



- 1) 3 ½ digit display, green and red: it displays the unit of measurement, 5 72 algin display, green and red. It displays the utili of measure the pressure value read, all setting information, the error code.
 2 Digital output 1: orange LED
 3 Digital output 2: orange LED
 4 Button: modifies the value of the selected parameter
 5 Button: modifies the value of the selected parameter
 6 Setting button: selects the parameter to modify
 2 Unit of magazarament selected

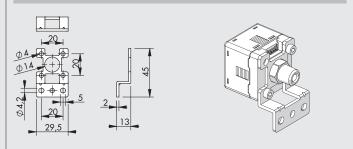
- 7 Unit of measurement selected

WIRING DIAGRAM



PIN	Color	Function		
1	Blue	0V power supply		
2	Black	Digital output OUT 1 or IO-Link (C/Q Line)		
3	White	Digital output OUT 2 or analog output		
		(1 to 5V, 0 to 10V, 4 to 20 mA)		
4	Orange	Disconnect		
5	Brown	+24VDC power supply		

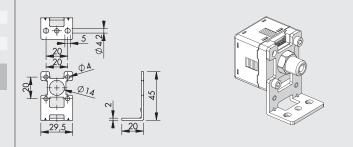
PARALLEL FIXING BRACKET KIT



Code Description

9000641L Parallel fixing bracket kit for digital pressure switch series 640 IO-Link

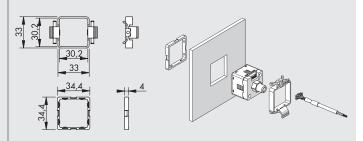
90° FIXING BRACKET KIT



Code Description

9000644L 90° fixing bracket kit for digital pressure switch series 640 IO-Link

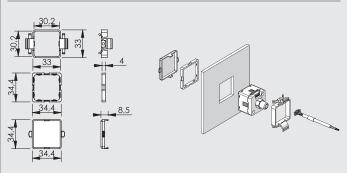
PANEL FIXING KIT



Code

9000642L Kit for panel fixing for the digital pressure switch series 640 IO-Link

PANEL FIXING KIT WITH PROTECTION



Code Description

Kit for panel fixing with protection for the digital pressure switch series 640 IO-Link