

Product innovations

Flow Sensors



Use
IO-Link
 Universal · Smart · Easy

The smart solution for compact systems

- Flow and temperature measurement
- Easy configurable via IO-Link interface
- Process data can also be used for remote maintenance
- Analog and switching output in SIO-mode available

Application

SDNC 500 sensors with IO-Link function are the smart solution for process monitoring. They can measure the flow speed and temperature in fluid mediums. To do so, there is a configuration software which configures the sensors via an IO-Link / USB master. The models ...GAPL provide flow data for water-based mediums as a linear output signal.

Functions

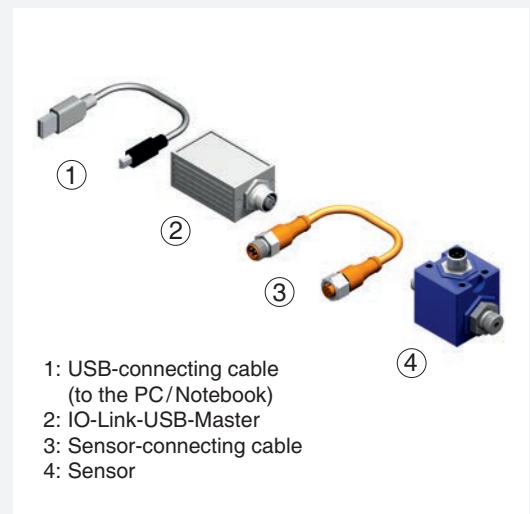
- Limit value / range value monitoring
- Analog output
- Pulse output flow
- Teach functions
- Logic linking
- Switching delay

Types

SDNC 502 GAPL	water-based media, 0.020...0.500 l/min, linearized
SDNC 503 GANPL	for all liquid media
SDNC 503 GAPL	water-based media, 0.05...2.00 l/min, linearized
SDNC 506 GANPL	for all liquid media
SDNC 506 GAPL	water-based media, 0.10...4.00 l/min, linearized
SDNC 508 GANPL	for all liquid media
SDNC 508 GAPL	water-based media, 0.20...8.00 l/min, linearized

Installation

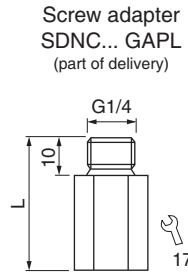
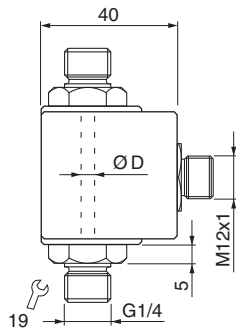
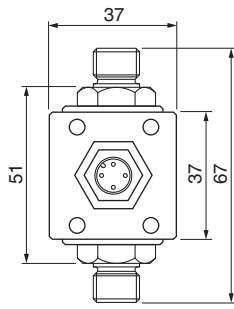
Hoses and pipe couplings can be easily connected using the G1/4 thread. A special screw adapter shapes the flow profile and provides a linear signal of the SDNC 50X GAPL. The stable construction makes the sensors insensitive to moisture and vibrations.



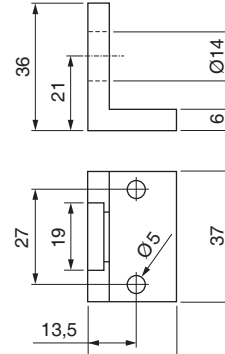
Application: EGE-IO-Link-System

More Information

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Mounting bracket
(Z01215)



Technical data

Detection range Liquids	depending on medium			
ID-No.		P11376	P11378	P11380
Type		SDNC 503 GANPL	SDNC 506 GANPL	SDNC 508 GANPL
Measuring tube ØD [mm]		3.5	5.5	7.5
Process data				
Flow [Steps]		0...1023	0...1023	0...1023
Temperature [°C x 0.1]		0...600	0...600	0...600
Detection range Water-based media [l/min]	0.020...0.500	0.05... 2.00	0.10... 4.00	0.20... 8.00
Resolution [l/min]	0.001	0.01	0.02	0.05
ID-No.	P11381	P11375	P11377	P11379
Type	SDNC 502 GAPL	SDNC 503 GAPL	SDNC 506 GAPL	SDNC 508 GAPL
Measuring tube ØD [mm]	3.5	3.5	5.5	7.5
Process data				
Flow [l/min x 0.001]	0...500			
[l/min x 0.01]		0...200	0...400	0...800
Temperature [°C x 0.1]	0...600	0...600	0...600	0...600
Adapter L [mm]	28	28	28	100
Supply voltage [V]	18...30 DC	IO-Link-Specifications		
Current consumption [mA]	≤40	Revision	1.1	
Switching output [mA]	150 (25 °C)	Baud rate	COM 2	
Analog output [mA]	4...20	Minimum cycle time [ms]	3.50	
Ambient temperature [°C]	0...60	Process data [Byte]	4	
Medium temperature [°C]	0...60			
Reaction time ¹ [s]	0,5			
Compressive strength [bar]	10			
Sensor material	AISI 316 Ti			
Housing material	PBT-GF30			
Protection [EN 60529]	IP 67			
Connection	M12 connector			
¹ depending on medium and on operation parameters				
Accessories (Selection)	Cable	Mounting bracket	IO-Link/USB master set	
ID-No.	Z00446	Z01215	Z01216	
Type	SLW 4-2	Mounting bracket	IOL-Master-Set V1.1	
Design	Cable plug housing M12x1 2 m PVC-cable 4x0.25 mm ²	Bracket 37x25x26 mm (WxLxH) Aluminium	IO-Link-Master Connection cables Power supply	

