

# Pressure sensor SDET

FESTO



## All-fluid sensor

The SDET truly deserves the name “universal pressure sensor,” thanks to its flexible applications, the faster way in which it can be installed and its positive price/performance ratio.

### Total application flexibility

SDET sensors can be used to monitor the pressure of all kinds of gaseous and liquid media, including of course air. Possible pressure measuring ranges are from -1 ... 1 bar to 0 ... 100 bar, depending on the variant chosen. The sensors are resistant to water and oils, making them ideal for applications in the process industry, automation technology, and the automobile and food industries. Even at first glance the stainless-steel housing suggests a sturdy design, with media-resistant FCM seals and integrated sensor element produced using thick-film technology for maximum application flexibility.

### Faster installation

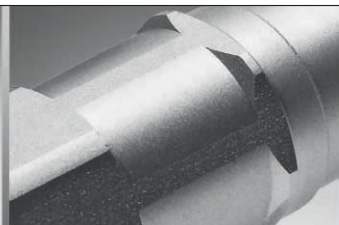
Industry-standard interfaces such as G1/4 process connections, 4-pin M12 plugs and standard analogue outputs make installation quicker and easier. Not forgetting the easy way in which the mounting components link together.

### Price follows function

Their superb application flexibility and the linkable mounting components with which they are supplied mean that SDET all-fluid sensors are superior to all other sensor solutions.



All-fluid sensors



Extremely robust

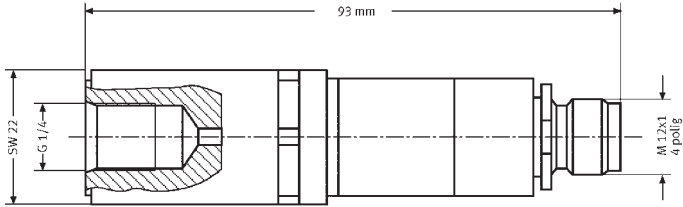


All inclusive

325.1.PSI →

Product Short Information

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## Overview of technical data

Part No.	SDET-22T-B2-G14-U-M12	547476	SDET-22T-D2-G14-U-M12	547478	SDET-22T-D6-G14-U-M12	547480	SDET-22T-D10-G14-U-M12	547482	SDET-22T-D16-G14-U-M12	547484	SDET-22T-D25-G14-U-M12	547486	SDET-22T-D50-G14-U-M12	547488	SDET-22T-D100-G14-U-M12	547490	SDET-22T-B2-G14-I-M12	547475	SDET-22T-D2-G14-I-M12	547477	SDET-22T-D6-G14-I-M12	547479	SDET-22T-D10-G14-I-M12	547481	SDET-22T-D16-G14-I-M12	547483	SDET-22T-D25-G14-I-M12	547485	SDET-22T-D50-G14-I-M12	547487	SDET-22T-D100-G14-I-M12	547489	
Type Designation																																	
Pressure measuring range																																	
Start value [bar]	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pressure measuring range																																	
Full-scale value [bar]	1	2	6	10	16	25	50	100	1	2	6	10	16	25	50	100	1	2	6	10	16	25	50	100	1	2	6	10	16	25	50	100	
Overload range [bar]	5	5	10	20	40	40	100	200	5	5	10	20	40	40	100	200	5	5	10	20	40	40	100	200	5	5	10	20	40	40	100	200	
Bursting pressure [bar]	6	6	12	25	50	50	120	250	6	6	12	25	50	50	120	250	6	6	12	25	50	50	120	250	6	6	12	25	50	50	120	250	
Accuracy [% FS]	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Analogue output	0.1 - 10 V (3-wire)																4 - 20 mA (2-wire)																
Load resistance	RL > 10k																RL ≤ (UB-8V)/0.02A																
Operating voltage UB	14 - 30 V DC																8 - 30 V DC																
Idle current	Max. 4 mA																-																
Residual ripple	10 % UB																																
Linearity error BFSL	0.40 % FS																																
Repeatability of analogue value FS	0.25 % FS																																
Long-term drift	0.3 % FS per year																																
Ambient temperature	0 - 80 °C																																
Medium temperature	-10 - 100 °C																																
Operating temperature	-20 - 85 °C																																
Temperature coefficient Zero signal	Typically 0.2 % FS, max. 0.4 % FS /10K (pressure measuring range 0...16 bar, typically 0.25% FS, max. 0.5% FS /10K)																																
Temperature coefficient Output range	Typically 0.15 % FS, max. 0.25 % FS/10K																																
CE symbol	In accordance with EU EMC Directive																																
Short-circuit-proof	Yes																																
Polarity safe	Within operating voltage range																																
Degree of protection	IP65																																
Sensor element material	Al2O3 96 %																																
Sealing ring material	FPM																																
Pressure connection material	CrNi steel 1.4305																																
Product weight	100 g																																

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