

Displacement sensor D-01

Description

The displacement sensor D-01 measures displacements up to 8 cm. The sensor is foreseen of a sliding mechanism that allows the sensor tip to be displaced. The zero position of the sensor tip can be either inwards (to detect outward movements, away from the sensor housing) or outwards (inward movements, towards the sensor housing). The sensors are all standard equipped with an internal fiber optic temperature sensor that is meant for temperature compensation.



Features

- Measurement of displacements in a range up to 8 cm.
- Displacement in both directions (inward or outward movement), depending on the sensor type.
- Temperature compensation by means of an internal temperature sensor.

Applications

The displacement sensor D-01 can be applied for various positioning measurements.

Standard specifications

Parameter	Value
Displacement range	20 mm / 50 mm / 80 mm
Displacement resolution ¹	≤ 0.05 % FS
Displacement precision ¹	≤ 0.1 % FS
Temperature range ²	-20 °C to +60 °C
Housing material	SS316
Pigtail diameter	3 mm
Pigtail length ²	1.5 m
Pigtail material	LDPE
Connector type	FC/APC

¹ Taking into account a depolarized measurement device with a 1 pm wavelength resolution and precision.

² Extendable on request.

Ordering information

Example:

D	0	1	-	1	-	5	0	-	5	-	0	0	-	F	A
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Product	
D01	Displacement Sensor

Displacement direction	
Standard	
1	Outward moving
2	Inward moving

Displacement range	
Standard	
20	20 mm
50	50 mm
80	80 mm
Custom Contact sales department	

Pigtail length	
Standard:	
00	1.5 m
Custom: length in XX meters	

Connector type	
Standard:	
FA	FC/APC
Custom: Contact sales department	

Wavelength range	
Standard	
1	1512 nm – 1517 nm
2	1522 nm – 1527 nm
3	1532 nm – 1537 nm
4	1542 nm – 1547 nm
5	1552 nm – 1557 nm
6	1562 nm – 1567 nm
7	1572 nm – 1577 nm
8	1582 nm – 1587 nm
Custom Contact sales department	