

General

The wire joint meters DS820 measure relative displacement between two points placed horizontally or vertically at a distance not less than 0.5mt and no more than 25mt. An invar wire (material with low thermal coefficient) is connected by one end to the displacement sensor and on the other end to a special bolt and it is tended by a spring.

The mounting kits are of two types: one for vertical and one for horizontal mounting, and can be customized on request.

Thanks to their sturdiness and protection (IP67) they are particularly suited to an external mounting in harsh environment conditions, ensure high reliability.

The DS820 have various technical configurations: several ranges (25...150mm), supplies (1...24Vcc) and outputs (mV,mA).

The invar wire must be protected in a protective tube to prevent breakage.

Since these sensors have an electrical output, they can be easily read by any data acquisition system produced by SIM STRUMENTI:

- A. MINILOG data acquisition system
- B. MYLOG data acquisition system
- C. NATUN data acquisition system
- D. DATAVIEW read out unit / data acquisition system

Each sensor is provided with calibration certificate

Applications

Structural cracks, structural joints, rock fall etc.

Mounting bracket for all applications

Easy to install

Reliability for long term monitoring

Displacement up to 150mm

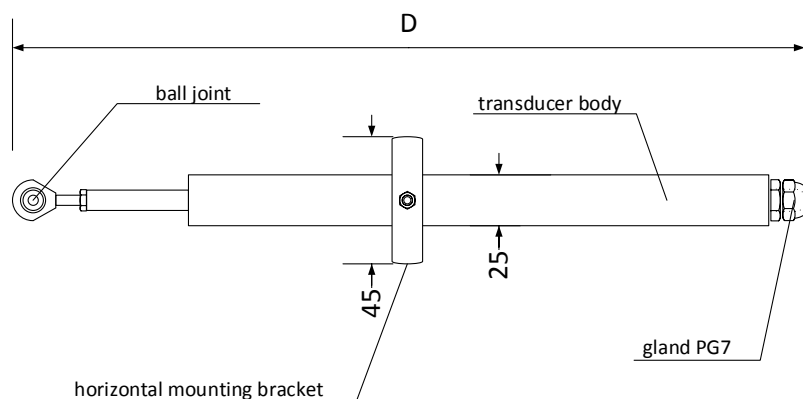
Cardan joint and ball joint to compensate lateral movements

Up to 25mt distance

IP67



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Technical features

Model	DS820-AA-FS-IN-MT*			
Sensor	Potentiometer			
Range	25	50	100	150
Linearity %FS	±0.1	±0.1	±0.1	±0.05
Length (D) mm	Min.	380	380	480
	Max.	405	430	580
Weight (kg)	0.45	0.45	0.70	0.90
Supply / Output signal	-01	1-12Vcc / 1000mV/V		
	-02	7÷24Vcc / 0-1V		
	-03	7÷24Vcc / 0-2V		
	-04	7÷24Vcc / 0-5V		
	-05	8÷24Vcc / 4÷20mA		
Resolution	0.001 mm			
Operating temperature	-30 ÷ +100 °C			
Insulation	>100MΩ a 500V			
Protection	IP67			
Material: body transducer, rod, ball joint, cardan joint, bracket, bolts and screws, gland and threaded rod anchors	stainless steel			
Accessories & spare parts				
Horizontal mounting kit	<i>DS820 - OR</i>			
Vertical mounting kit	<i>DS820 - VE</i>			
Invar wire	<i>DS820 - IN (mt)</i>			

*FS – Range

*AA – Supply / Output signal (-01... -05)

*IN – Invar wire length (mt)

*MT – Cable length (mt)

DS820_EN ED02/16



SIM STRUMENTI SNC
 Via Merendi 42
 20010 Cornaredo (MI) - ITALY
 Tel .: +39 02 97003039
 Fax : +39 02 97290167
 www.simstrumenti.com
 sim@simstrumenti.com



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