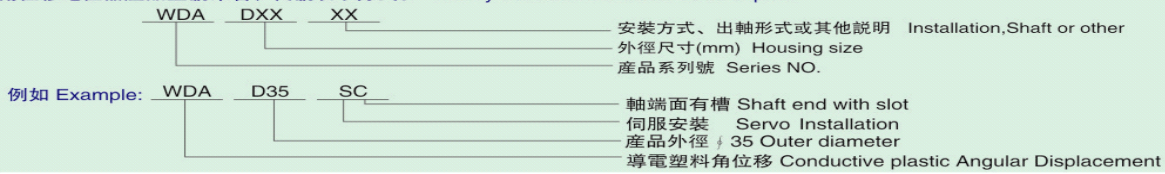


MINOR® WDA系列角位移傳感器 (電位器)

角位移電位器產品型號命名、代號表示方式: Rotary sensors name and code explain



主要字母代號說明 Main words code explain

系列號 Series NO.

WDA-2D

D前數字加2
的為雙聯
2D means
Dual-signal output

安裝方式

D S M

外螺紋固定式 Fasten with external thread
伺服安裝式 Servo installation
定位螺絲固定式 Fasten with screw

雙面出軸
Both ends with shaft

A

軸端面有槽
Shaft end with slot

C

旋軸停止檔
stop position with spin axis

P

中心抽頭
Center tap

Z

自動復位
Self return

8T

指針式
Pointer type

F

特殊性能
Special Performance

W

WDA series of angular displacement sensor, used molded conductive plastic body, owing to good reliability, long life characteristics are widely used in military, aerospace, automotive, medical, measurement, robots, atomic energy etc. Certainly more suitable for industrial applications.

☆ **Dimensions: see drawings and views;**

☆ **The main advantage: low noise, reliability, smoothness, long life;**

☆ **Installation method: optional D-positioning screw fasten, M-external thread fix, S-servo installation method.**

Main Parameters

Electrical Specifications	
Standard resistance	optional 0.25KΩ、0.5KΩ、1KΩ、2KΩ、3KΩ、5KΩ、10KΩ on request
Resistance error at 20℃	≤±10% on request other value ±15%
Theory Electrical Angle	(AEA)-3°
Actual Electrical Angle	45° ±2° ; 95° ±2° ; 180° ; 345° on request other angle
Independent linearity	≤1%; ≤0.5%; ≤0.4%; ≤0.3%-≤0.05% optional on request
Max power rating at 70℃	0.5W; 1W; 2W
Output smoothness	≤1%-≤0.05%
Wiper current	recommended: a few μA-2mA max. (continuous)
Tap(current or voltage)	1: on request NA
Wiper load resistance	≥1000×Rt
Insulation resistance	≥1000MΩ, 500VDC
Dielectric strength	≥500 (VRMS) 1min

Mechanical Specifications			
Mechanical Angle(MA) on request:stop	360° continuous		
	optional 90° ±20° ; 180° ±20° ; 345° ±20° on request		
Installation type	S-servo	D	M on request
Shaft guiding	sleeve bearing ; ball-bearing		
Shaft	stainless steel		
Housing	anodized aluminium		
Terminals	turrets		
Wiper	precious metal multi-finger contact		
Starting torque(N. cm)	≤0.5-≤1、Dual-signal≤2		
Torque on stops(N. cm)	≥20		
Weight(g)	15-80g (depend on different type)		

Performance	
Operation life	5×10 cycles, Total resistance change ≤10%, Linearity change ≤50%
Temperature range	—55°C, +125°C
Humidity resistance	90%RH240h, Total resistance change ≤10%
Speed rotation(RPM)	150
Vibration	Amplitude1.52mm, frequency10-2000HZ, Total resistance change ≤±2
Shock	50g-11ms, Total resistance change ≤±2