

H3 Dummy Chest Potentiometer H3CHP-ASS

- Applied to H3 dummy chest displacement measurement;
- Including potentiometer and assembly parts;
- Utilizes a single-turn metal potentiometer
- Internal bridge compensation;
- Calibration according to SAE J2517-2022;
- Anti-Shock $\geq 100g@6ms$.



H3CHP-ASS is a chest displacement component for H3 dummy. Its core uses high-performance resistive potentiometer, which has excellent nonlinearity and ensures the accuracy of displacement measurement of the entire component. The potentiometer and assembly are positioned with positioning pins and fixed with locking nuts to prevent the potentiometer from sliding and affecting sensitivity. The installation components are available in different specifications such as H3-5TH and H3-50TH according to customer requirements. The default cable length is 8 meters, and connectors and ID chips can be provided according to customer requirements. A digital DDAS version is also available.

Specification (25°C, 5V Excitation):

Name	unit	Value
Active Angle	degree	340
Pot. Original Resistance	Ω	$1k \pm 10\%$
Pot. Nonlinearity	%FS	$\leq \pm 0.25$
Pot. Max. Diameter	mm	22
Pot. Axis Length	mm	20
ANS-340 Input Resistance	Ω	500~600
Assembly Cubic Fitting Error	%FS	$\leq \pm 1$
Insulation Resistance	$M\Omega$	>100
Operating Life	cycle	≥ 1 million

H3CHP-ASS-M is for H3-50TH Dummy;
H3CHP-ASS-F is for H3-5TH Dummy;
Internal bridge compensation, set as full bridge sensor;

Cable length 8m default.;
LEMO connector and Dallas ID are optional.

H3-50TH Dummy Chest Displacement Sensor Assembly Including:



Wire Define:

Red	Excitation+,
Black	Excitation-
Green	Signal+
White	Signal-
Shield	Connector Case