

Fig.1

Dimension

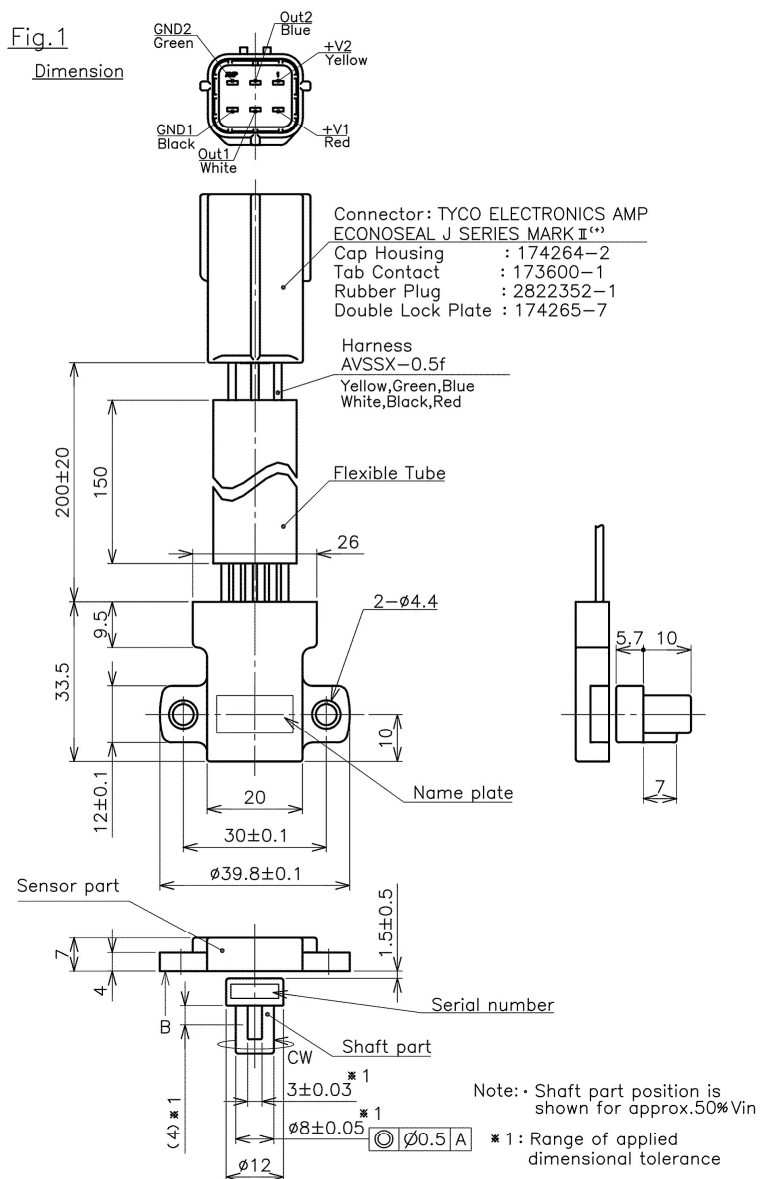


Fig.2

Output characteristic

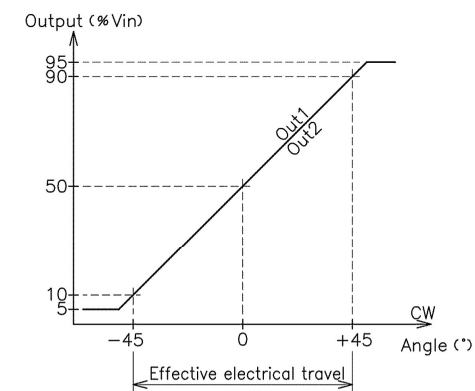
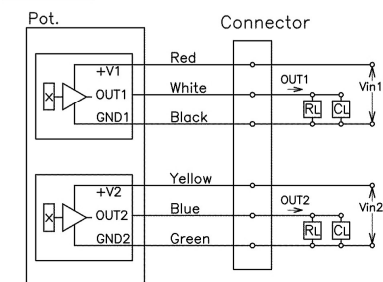


Fig.3

Schematic



• Red, white, black, yellow, blue and green indicate wire colors.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN

A3

SPECIFICATION DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP2HXP090R1					
APPROVED	T. Yamazaki	TOLERANCE	DATE	MIDORI PRECISIONS CO., LTD.	
CHECKED	T. Yamazaki	≤ 10 ±0.25	9.1.2020	DRAWING NO.	REV.
DRAWN	R. Otake	10 < ≤ 100 ±0.5	SCALE	1:1	
		100 < ±1.0	DRAWING PRACTICE		
		ANGLE ±1.5°		A-MPF-B67	0

This product compliance with RoHS.Specifications

Output characteristic	: See Fig.2	Operating temperature range	: -40~+100℃ (No condensation)
Effective electrical travel	: ±45°	Storage temperature range	: -40~+100℃ (No condensation)
Absolute linearity	: ±2%FS (= ±1.8°) : (FS=±45°)	IP Level	: IP67
Input voltage	: DC5V±0.5V	Vibration	: 200m/s ² , 5~500Hz, 12min (Half cycle), 3axis 2hours (Room temp.)
Load resistance (R _L)	: 10kΩ Min./ 1ch	Shock	: 1000m/s ² , 6ms, 3axis 3times (Room temp.)
Load capacitance (C _L)	: 47~330nF/ 1ch	EMS	: 100V/m, 1MHz~1GHz (ISO11452-2,-3) Output error: ±1%FS
Supply current	: 10mA Max./ 1ch	EMI	: CISPR25 Class 3
Insulation resistance	: 100MΩ Min. DC50V (Room temp. and humidity)	ESD (Case to each terminal)	: Contact discharge, ±15kV (IEC61000-4-2)
Resolution	: 12bit (0~100%Vin)	ESD (Between each terminal)	: Contact discharge, ±15kV (IEC61000-4-2)
Hysteresis	: 1%FS Max.		
Response time	: 0.9ms MAX. (Electrical delay of output for mechanical input)		
Temp. Characteristic	: ±1%FS (±0.9°) (Reference temp.+25℃) -40~+100℃		
Output tolerance between out1 & out2 over total electrical travel	: Normal temp.: ±1%FS Temp. drift (Reference temp.+25℃) : 1%FS Max. output tolerance.: 3%FS		
Mass	: Approx. 35g		
Harness strength	: Wire tensile 98N, 1minute all wires.		
Dimension	: See Fig.1		
Schematic	: See Fig.3		

Note

1. As this product is using "CMOS IC", handling of harness must be done under the ESD protection.
2. This product may have external magnetic influence of the apparatus which generates a magnetic field.
3. Please mating a pair of the sensor part and the shaft part (same serial numbers are marked) for being guaranteed the accuracy of this product.
4. Please mount the sensor part and the shaft part just as this drawing dimension. Please the magnetic substance and the magnet are kept away from this product.
5. This product uses the strong magnet. Please materials that are susceptible to magnetic force are kept away from this product.

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CHECKED	_____	≤ 10 ±0.25	SCALE	DRAWING NO.	REV.
		10< ≤ 100 ±0.5			
DRAWN	_____	100< ±1.0	DRAWING PRACTICE	A-MPF-B67	0
		ANGLE ±1.5°			

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We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich

Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim

Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Office North America:

Angst+Pfister North America Inc.
10391 Brecksville Rd.
Brecksville, OH 44141

Phone +1 440 375-5212
info.apus@angst-pfister.com

Scan here and get an overview of personal contacts

