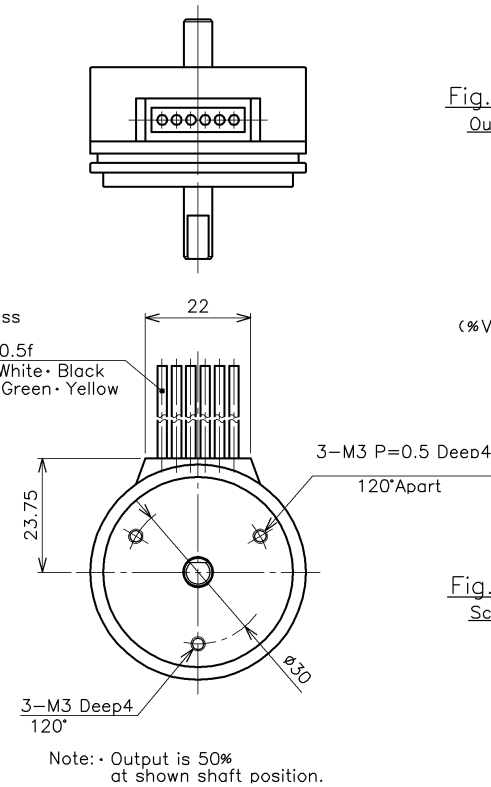
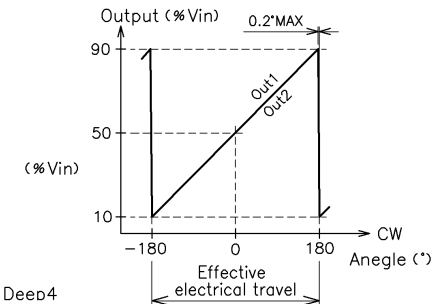


PAGE 1/2

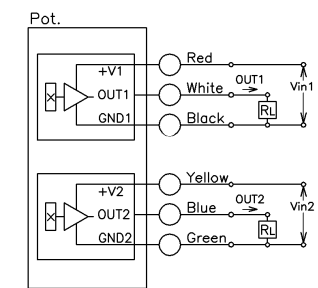
Dimension



Output characteristic



Schematic



- Red,white,black,yellow,blue and green indicate harness colors.

					
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
A.3					

SPECIFICATION DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP-45HSP					
APPROVED	TOLERANCE		DATE	DRAWING NO.	
	≤ 10	±0.25	2014. 1.30	REV.	
CHECKED	10 < ≤ 100	±0.5	SCALE 1:1	A-45H-B43	
DRAWN	100 <	±1.0	DRAWING PRACTICE	0	
	ANGI F	±1.5*			

This product compliance with RoHS.Specifications

Output characteristic	: See Fig.2
Effective electrical travel	: 360°
Absolute linearity	: $\pm 0.4\%FS (= \pm 1.44^\circ)$: ($FS = \pm 180^\circ$)
Input voltage	: $DC5V \pm 0.5V$
Load resistance (R _L)	: 10k Ω Min.
Supply current	: 10mA Max. 1ch
Insulation resistance	: 100M Ω Min. DC50V (Room temp. and humidity)
Resolution	: 12bit (0~100%Vin) (Rotation speed:16rpmMAX.)
Hysteresis	: $\pm 0.2\%FS$ Max.
Response time	: 0.9ms MAX. (Electrical delay of output for mechanical input)
2 Outputs difference	: Out1-Out2 = $\pm 1.5\%FS$
Temp. Characteristic	: $\pm 0.3\%FS (\pm 1.08^\circ)$ (Reference temp.+25°C) -40~+100°C
Total mechanical travel	: 360°Continuous
Torque	: 30 mN·m Max.
Mass	: Approx. 100g
Radial load tolerance	: 6N
Axial load tolerance	: 2N
Harness strength	: Harness tensile 50N, 1minute all wires.
Dimension	: See Fig.1
Schematic	: See Fig.3

Operatina temperature range	: -40~+100°C (No condensation)
Storage temperature range	: -40~+100°C (No condensation)
IP Level	: IP54
Life	: 10million cycles, 400~600rpm (Room temp. and no shaft load)
Vibration	: 200m/s ² , 5~500Hz, 10min (Half cycle), 3axis 4hours (Room temp.)
Shock	: 1000m/s ² , 6ms, 3axis 3times (Room temp.)
EMS	: 100V/m, 1MHz~1GHz (ISO11452-2) Output error: $\pm 1\%FS$
ESD (Case to each terminal)	: Contact discharge, $\pm 15kV$ (IEC61000-4-2)
ESD (Between each terminal)	: Contact discharge, $\pm 15kV$ (IEC61000-4-2)

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. When the shaft is coupled, please do not apply heavy load to it.

SPECIFICATION DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP-45HSP					
APPROVED _____	TOLERANCE		DATE _____	DRAWING NO. A-45H-B43	
	≤ 10	±0.25			
CHECKED _____	10< ≤ 100	±0.5	SCALE _____		
	100<	±1.0	DRAWING PRACTICE		
DRAWN _____	ANGI F ±1.5'			REV. 0	

A3

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

