

AGS1137K – Resolver to Digital Interface

Technical Specifications

Function

This instrument provides an excitation waveform to be fed to a resolver; using the return waveforms the angular position of the resolver is translated into parallel data.

Excitation

Adjustable via 15 turn potentiometer over 2.2V to 7V pk - pk.
Default 2.3Vpk-pk Sine Wave @ 6 KHz

Relay Output

Output is four sets of single pole changeover contacts, rated at 250VAC, 2A, 100VA (resistive)

LED indication of Relay status: Green = Energised
Red = De-Energised

Trip 1 = Low trip of window 1 Trip 3 = Low trip of window 2
Trip 2 = High trip of window 1 Trip 4 = High trip of window 2

Trip setpoint set by 15 turn blind set potentiometer, adjustable range set by internal 4 way DIL switch. Half range = All OFF (Default)
Full range= All ON

Parallel Data Output

12 Bit parallel data output

Logic levels: Low = 0Vdc, High = 24Vdc

Each Bit can drive up to 5mA

Alternative configurations may be available on request

Display

12 x Red LEDs to display bit count

Performance

Accuracy: +/- 1 LSB

Trip settability: ± 1 LSB

Trip repeatability: ± 1 LSB

Response time: <400mS

Trip Hysteresis: ± 1 LSB

Protection

Relay: De-energise on Trip & fail safe on loss of power as std
Isolation 500Vdc: (Input+ Exc+ Output)/Relays/Supply/Earth
Internal Fuse.

RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,
80MHz-1GHz/5.6GHz 30V/m
(889MHz-1.75GHz 40V/m)

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH

Supply

Voltage: 24Vdc +/- 10%

Max power consumption: 4 Watts



Mounting

Din rail

Dimensions

Width (177) x Height (70) x Depth (150mm)

Customer Termination

Fixed screw terminals as standard
(Plug-in terminals optional)

TB	Function	TB	Function
1	N/C	18	Ref(0V)
2	W	19	1 (LSB)
3	N/O	20	2
4	N/C	21	3
5	W	22	4
6	N/O	23	5
7	S2(COS)	24	6
8	S4 (~COS)	25	7
9	S3 (~SIN)	26	8
10	S1 (SIN)	27	9
11	R2 (~EXC)	28	10
12	R1 (EXC)	29	11
13	Screen	30	12 (MSB)
14	Earth	31	N/C
15	+Ve Supply	32	W
16	-Ve Supply	33	N/O
17	Screen	34	N/C
		35	W
		36	N/O

N/C = Normally closed

N/O = Normally Open

W = Wiper