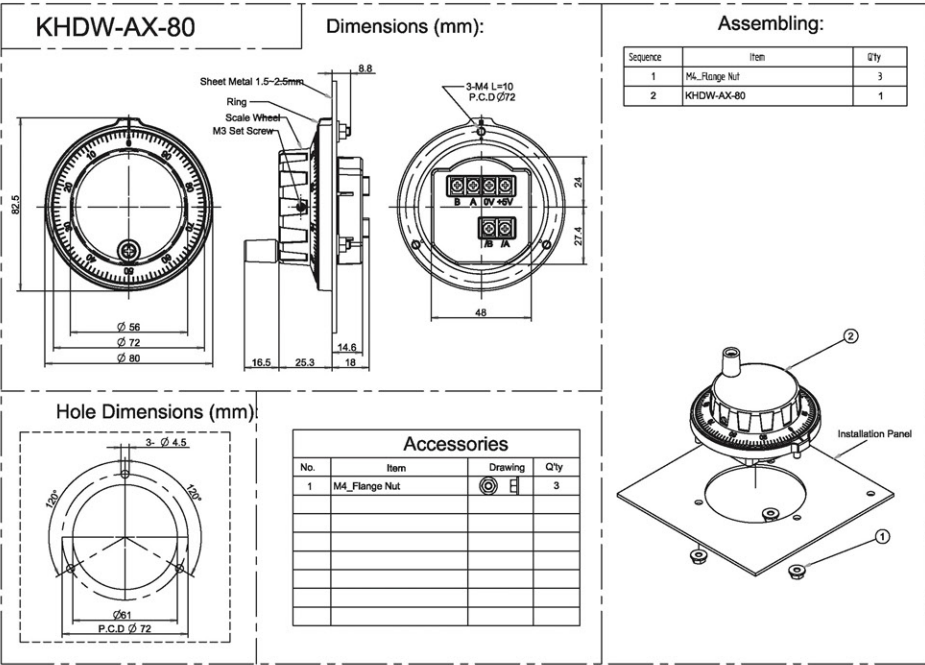
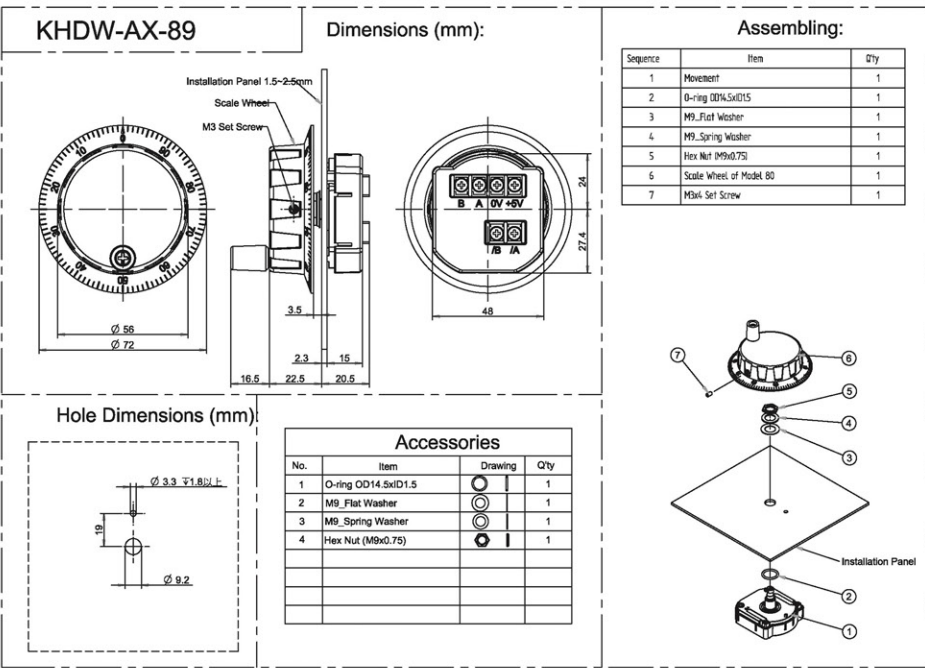


KHDW-AX-80 Dimensions / Cutout & Assembling Sequence



KHDW-AX-89 Dimensions / Cutout & Assembling Sequence



MANUAL PULSE GENERATOR
(PANEL-MOUNTED HANDWHEEL)

KHDW-AX Series

Suitable for CNC lathes or small machines.
Easy for operators to do axial adjustment.



Features

- Budget & assembling time-saving
- Double-color injection molding, colors never fade
- DIY oriental , user-pack , easy to assemble
- Oil & waterproof design
- 25 PPR or 100 PPR , DC 5V , 8 ~ 26V available
- Provide Ø60 & Ø80mm , five packages for option totally
- Multiple output types suit for various CNC controller
- Protect inversion of polarity
- Designed for ODM or any tailor-made work



FUTURE LIFE TECHNOLOGY CO., LTD.

13Fl., No. 963, Jong-Jeng Rd., Jong-Ho Dist., New Taipei City, Taiwan 23544

TEL : 886 + 2-8227-5339 FAX : 886 + 2-8227-5572 Email : amaker@ms24.hinet.net



Ordering Information

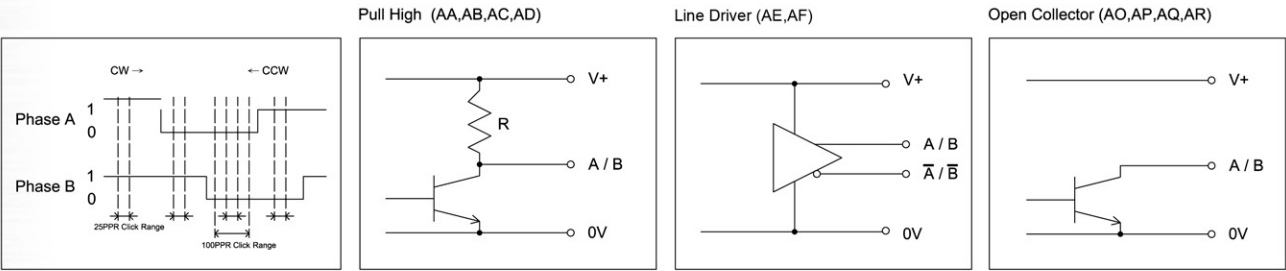
KHDW	A	A	80
SERIES NAME	MODEL	TYPE	DIAMETER
KHDW	A		
Type	Specification		
	Power	Pulse	Output
A	5V	100PPR	R330
B	5V	25PPR	R330
C	8V~26V	100PPR	R2.2K
D	8V~26V	25PPR	R2.2K
E	5V	100PPR	DIFF
F	5V	25PPR	DIFF
O	5V	100PPR	Open collector
P	5V	25PPR	Open collector
Q	8V~26V	100PPR	Open collector
R	8V~26V	25PPR	Open collector
Handwheel Diameter			
60	Ø60mm Standard (PCD 51mm)		
80	Ø80mm Standard (PCD 72mm)		
6N	Ø60mm w/Flat Plate (M9 Shaft)		
69	Ø60mm Customized w/o Plate		
89	Ø80mm Customized w/o Plate		

Specification

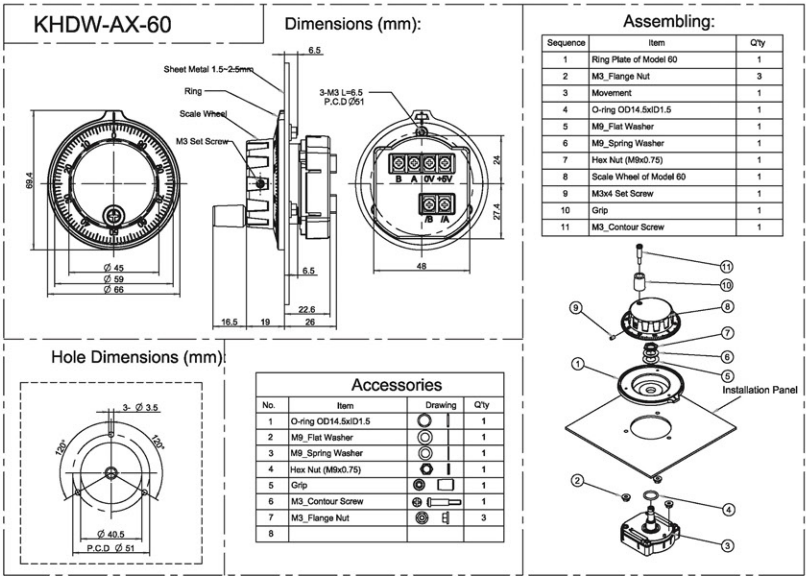
Type	AA , AB , AO , AP	AC , AD , AQ , AR	AE , AF
Power Source	DC 5V±10%	DC 8V ~ 26V	DC 5V±10%
Current Standard	80mA max.	60mA max	150mA max.(90mA typ.)
Open Collector	30mA max.	40mA max	
Output Type	330Ω Pull-High (AA,AB) Open Collector(AO,AP)	2.2KΩ Pull-High (AC,AD) Open Collector (AQ,AR)	Line Driver Terminal Resistor at receiving end 100Ω
Output Voltage (Pull-High)	High Level : Voltage -0.5V min. Low Level : 0.4V max. (Unloaded)		
Pulse	100 Pulse / 100 PPR or 25 Pulse / 100 PPR		
Response	5KHz		
Rotating Torque	150 ~ 250 gf•cm		
Rotating Life	1,000,000 min.		
Operating Temperature	0°C /+50°C		
Storage Temperature	-10°C /+60°C (w/o condensation)		
Shock	2G - Vibration ; 7.5G - Shock		
Weight	110g(AX-60) , 99g (AX-69) , 104g (AX-6N) , 115g(AX-80) , 90g(AX-89)		

Waveform

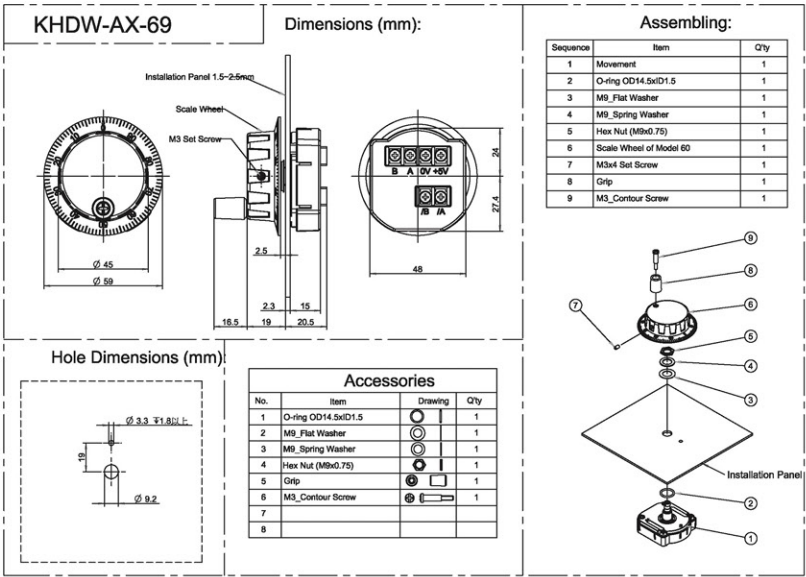
Clockwise, phase A is rising as phase B is low (0).
Counter-clockwise, phase A is rising as phase B is high (1).



KHDW-AX-60 Dimensions / Cutout & Assembling Sequence



KHDW-AX-69 Dimensions / Cutout & Assembling Sequence



KHDW-AX-6N Dimensions / Cutout & Assembling Sequence

