

Absolute encoder

PROFIBUS industrial bus (version 4.0)



Encoder introduction	
Encoder technology	Magnetoelectric
Single turn resolution	12-bit, 13-bit, 14-bit optional
Number of laps	64 circles, 256 circles, 4096 circles, 16384 circles are optional
Multi-turn technology	mechanical gear set
Code system	binary

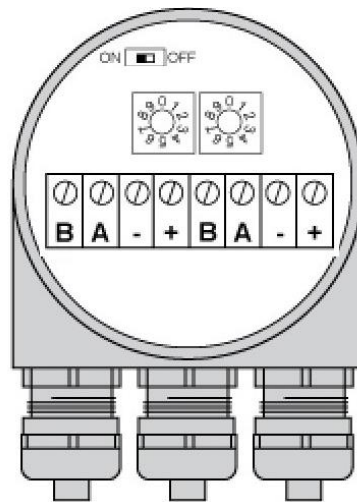
Interface Introduction	
Output signal	PROFIBUS
Manual function	Address selection switch 0-99 and terminal resistance DIP switch (with junction box)
Interface cycle time	$\geq 2\text{ms}$
Transmission rate	$<12\text{M}$
Programming function	Single-turn resolution, signal count direction, baud rate, preset (zero point)
Output driver	Profibus data interface, optocoupler isolation



Electrical parameters	
Operating Voltage	10-30Vdc (5Vdc can be customized)
Current consumption	< 50mA (24Vdc) no load
Output signal	PROFIBUS industrial bus
Start Time	< 1s
Reverse polarity protection	Yes
Short circuit protection	Yes
Repeatability	< 2Bit
IP class	IP65/IP67
Operating temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Humidity	98% relative humidity, non-condensing

Mechanical parameters	
Maximum speed	6000 rpm
Spindle load	Axial 40N, radial 100N
Spindle material	Stainless steel
Shell material	aluminum
Impact resistance	1000m/s ² (6ms), equal to 100g
Anti-vibration	200m/s ² (10-2000Hz), equal to 20g
Axial movement allowed	±1.5mm
Allow radial runout	±0.2mm
External structure	60mm outer diameter, solid shaft, blind hollow shaft
Connection Type	Side outlet M16 waterproof connector
Flange material	aluminum
Shaft material	Stainless steel
Plug specification	
Outlet direction	side exit
Outgoing way	3*M16 gland head

Schematic diagram:

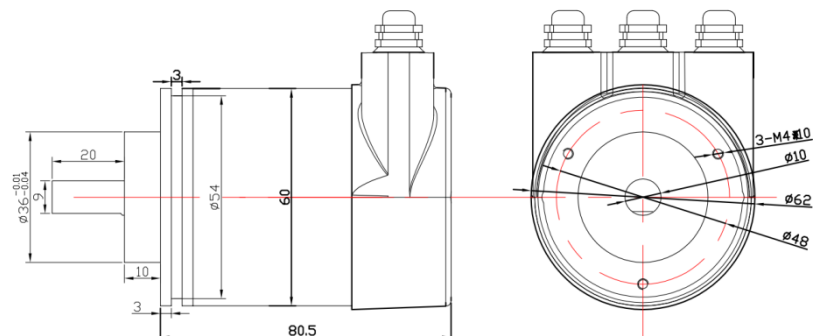


Wiring diagram:

Signal	interface
Bus in B	B
Bus in A	A
GND	-
10-30V	+
Bus out	B
Bus out	A
GND	-
10-30V	+

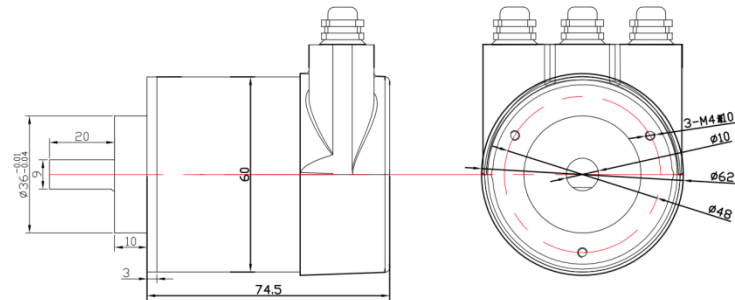
Mechanical Dimensions:

Clamping synchro flange



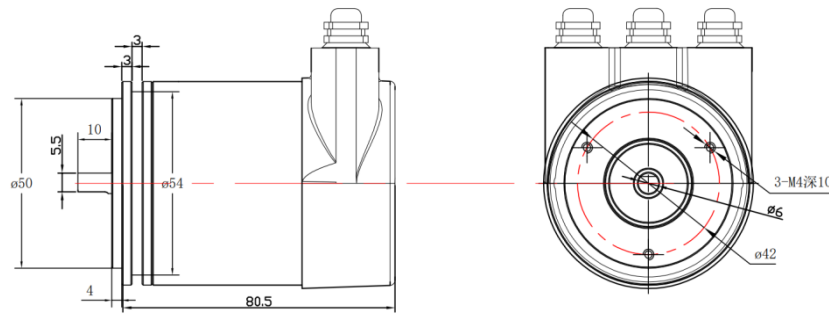
60mm outer diameter 6/8/10mm shaft diameter optional 20mm shaft length

clamping flange



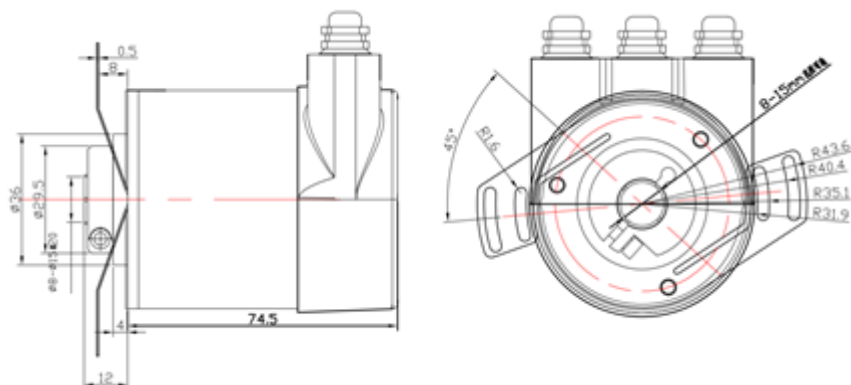
60mm outer diameter 6/8/10mm shaft diameter optional 20mm shaft length

Synchro Flange/Servo Flange



60mm outer diameter 6mm shaft diameter 10mm shaft length

Blind Hole Type/Semi-Through Hole Flange



60mm outer diameter 8-15mm hole diameter optional 20mm hole depth