

INCREMENTAL ROTARY ENCODER

"Special Manufacturing Series"

ARS-S-1XP8001
ARC-S-1XP8001



- Magnetic (ARS) or Optical (ARC) principle measurement systems
- Special spindle with special screw
- 58mm body diameter
- 1024 pulse resolution
- With special socket connection or optional cable
- Reverse polarity and short circuit protection
- High operating speed 6000 RPM

The ARS / ARC-S-1XP8001 series have a specially manufactured shaft structure. The main body of the shaft is 12 mm and the end part is a 8 mm thread. The products have a standard diameter of 58mm.

They are frequently used in many areas such as motor speed control, speed measurement, automation applications that require length measurement, all kinds of machinery sector, etc.

APPLICATIONS

- Motor Speed Control
- Textile Machinery
- All kinds of Automation Applications

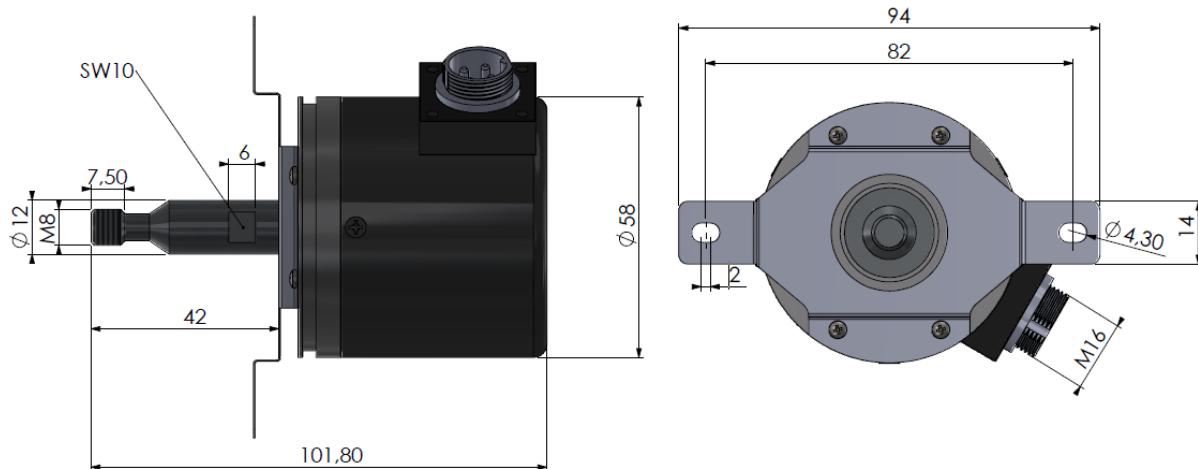
Technical Specifications

Resolution/ per tour	Standard 1024 pulse (optional others)
Operating Principle	ARS Series : Magnetic ARC Series : Optical
Output Signal Type	Push-Pull , TTL RS422 Line Driver, Open Collector
Electrical Connexion	Standard M16 12 pin socket, other models optional
Output Sigtals	A B Z /A /B /Z
Input Current	Max. 60 mA per channel
Supply	10...30 VDC ±%20 , 5 VDC ±%5 , 5...24 VDC ±%20 , 5...30 VDC ±%20
Connection Class	Reverse polarity and short circuit protection are available.
Response Frequence	50 – 300KHZ

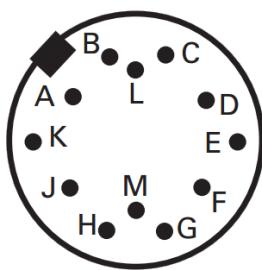
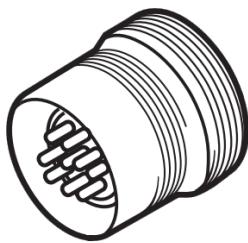
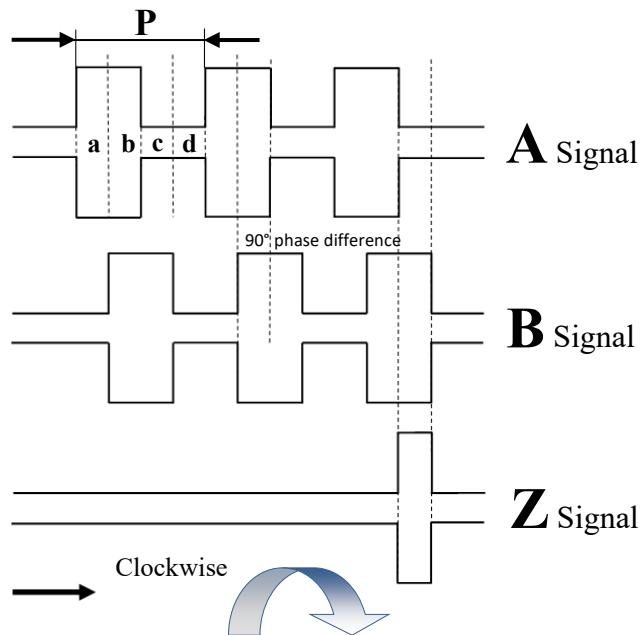
Mechanical Specifications

Shaft Type	Special type with screw
Mechanical Measurements	58 mm body diameter
Operating Temperature	-25°C...+85°C
Starting Torque	0,5Nm
Body	Main body: Steel Sheet Flange: Aluminum
Maximum Operating Speed	6000 RPM
Protection Class	IP54
Weight	250 grams

Mechanical Dimensions



Signal	Cable Color	Socket Pin Number
A	YELLOW	E
/B	WHITE	A
+VCC Supply	RED	B - M
0 V	BLACK	K-L
/A	BLUE	F
B	GREEN	H
/Z	GREY	D
Z	PINK	C
GND	SHIELD	Socket body



Order Details

Operating Principle

S: MAGNETIC

C: OPTICAL

Shaft type

S: Shaft

Body Diameter

058 : 58 mm

A R S - S - 0 5 8 - 1 0 2 4 - H P L - 6 - S 1 9 - Y - 1 X P 8 0 0 1

Resolution

Standard 1024 = 1024 pulse

** Other pulse options can be selected from 4 pulse to 4096 pulse.

Output Signals

6 : A, /A, B, /B, Z, /Z

2 : A, B

3 : A, B, Z

4 : A, /A, B, /B

Cable Direction

A : Backside

Y : Sidewise

AS : Backside + Spiral

Feed and Output Type

PP : 10...30 VDC Supply
: 10...30VDC Output

TTL : 5 VDC Supply
: 5 VDC TTL Output

HTL : 10...30 VDC Supply
: 5 VDC TTL Output

HPL : 5...30 VDC Supply
: 5...30 VDC Push-Pull Output

OCL : NPN Open Collector

OCP : PNP Open Collector

Cable Length

S19 : M16 / 12 Pin Socket

5M : 5 M

10M : 10 M

* Optionally, it is done in the desired length.

Special production series

Specially designed shaft main body 12 mm, end section with threaded type 8 mm

1XP8001-1 Feed: 10-30VDC

1XP8001-2 Feed: 5VDC