

# 产品选型手册

Product selection guide



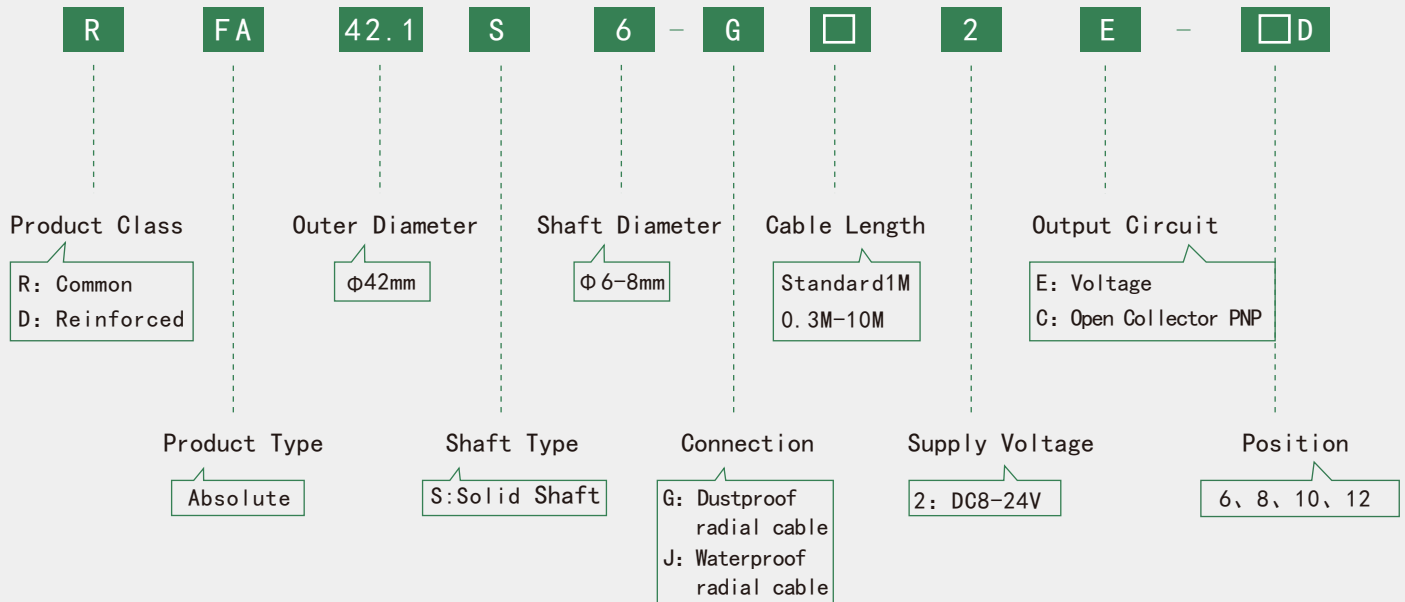
RFA42.1 Series

# Applications & Features



- This absolute photoelectric encoder can measure displacement, and output natural binary code. Which is widely used in automatic measurement and control system.
- Small volume, light weight, resistance to shock and vibration characteristics, strong anti-interference ability etc
- Optoelectronic devices with high reliability, long life, strong anti-interference ability, wide service temperature etc..

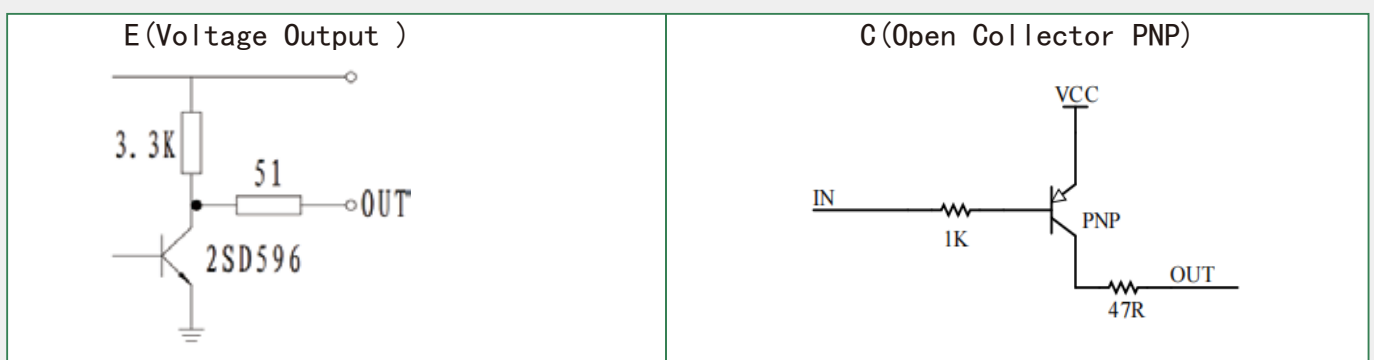
## Part Number



## Technical Parameters

Item	Parameter	Item	Parameter
Supply Voltage	DC8-24V	Output Model	Voltage Output
Current requirements	≤150 m A	Frequency Response	5 kHz
High Level Output Voltage	≥20 V	Low Level Output Voltage	<0.7 V
Output Code	Natural Binary	Max. Slew Speed	5000 r/min
Radial Max. Load	20 N	Axial Max. Load	10 N
Radial Torque	1.5 × 10 <sup>-3</sup> N·m	Moment of Inertia	5 × 10 <sup>-8</sup> kgm <sup>2</sup>
Operating Temperature	-20°C ~ +85°C	Storage Temperature	-30°C ~ +95°C
Vibration Resistance	98m/s <sup>2</sup> , 10 ~ 200Hz 2 hours from XYZ three directions	Impact Resistance	980m/s <sup>2</sup> , 6ms 2 times from XYZ three directions
Protection Class	IP52	Weight	≈250g

## Output Model



# Signal Output Logical Table

FUNCTION	POSITIONS											
	1	2	3	4	5	6	7	8	9	10	11	12
$2^0$	1	0	1	0	1	0	1	0	1	0	1	0
$2^1$	0	1	1	0	0	1	1	0	0	1	1	0
$2^2$	0	0	0	1	1	1	1	0	0	0	0	1
$2^3$	0	0	0	0	0	0	0	1	1	1	1	1
EP	1	1	0	1	0	0	1	1	0	0	1	0
TP	1	1	1	1	1	1	1	1	1	1	1	1

# Connection Table

Signal	Vcc	0V	TP	$2^0$	$2^1$	$2^2$	$2^3$	EP	G
Cable Color	Rad	Black	White	Brown	Grey	Yellow	Green	Orange	Shield

# Drawing

