

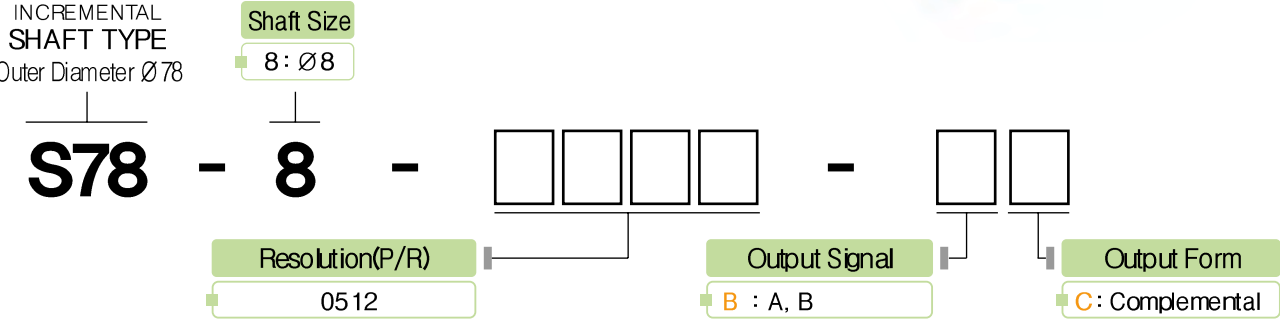
INCREMENTAL
SHAFT TYPE
S78 Series

■Features : Elevator, Industrial Machine

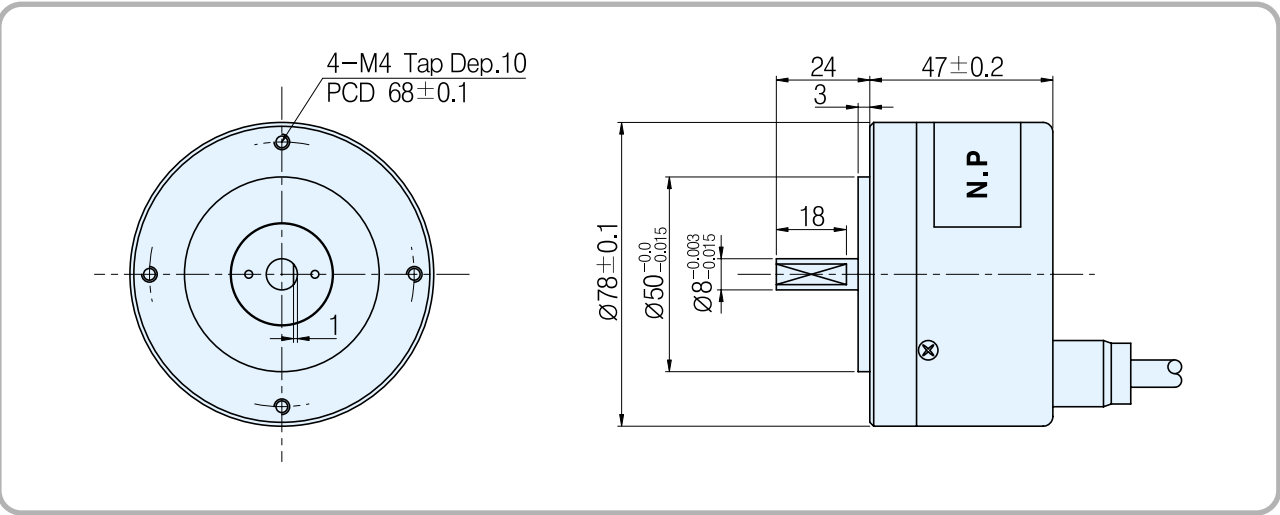
Rotary Encoder



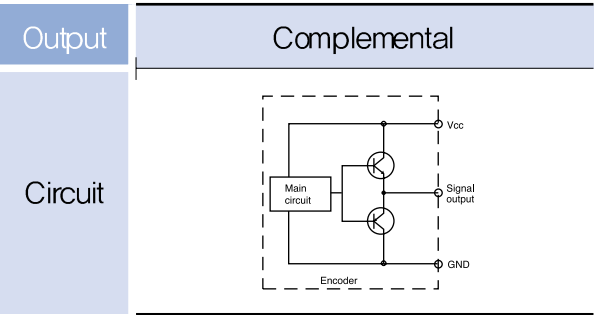
Model



External Dimension



Output Circuit



Electrical Spec.

Output type	Complemental
Power Supply	DC +15[V] Ripple p-p : less than 5%
Consuming Current (In case of no load)	150mA Max
Maximum Response Frequency	150 KHz
Output voltage	Less than V _L 0.5[V] / More than V _H 10[V]
Output current	Less than 10mA
Rising, decline time	Less than 1μs
Common conditions	In case that the cable length of output side is 1[M] and load resistance is less than 1[kΩ]

Mechanical Spec.

Starting Torque	100g - cm Max
Maximum number of revolution	5000 rpm
Bearing lifetime	500,000[hr](In case of rotating by 5000rpm)
Allowable Shaft Load	Radial : 3.0kg Max Axial : 1.5kg Max
Position deflection of allowable shaft	Radial : Less than 0.05 mm Axial : Less than 0.2mm
Connection Table	4P(AWG26) Shield CABLE
weight	400g

Rigid Spec.

Operating Temp. Range	-10℃ ~ +70℃ (No freezing)
Preserving temp	-20℃ ~ +85℃
Using humidity	35% ~ +85% RH
Preserving Humidity	35% ~ +90% RH
Internal Vibration	5G
Internal Shock	100G
Degree of Protection	IP 50

Output Phase Shift

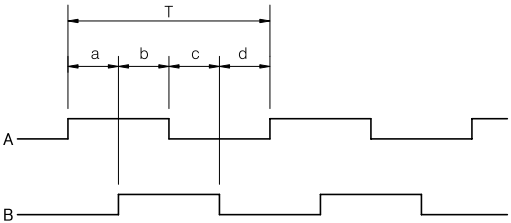
CW ➡ Clockwise viewed from shaft end

$a + b, c + d = T/2 \pm T/10$

$a, b, c, d = T/4 \pm T/10$



Complemental



Connection Table

Cable's Color	Connection Table
Output Form	Complemental
Red	Vcc
Black	GND
Green	A Sig
Yellow	B Sig
Shield	CASE Shield