

NEUMICON

SHAFT TYPE

OEZ Model



Small High-Speed Model

- High Speed Response Frequency 150kHz.
- High Resolution (1500P/R).

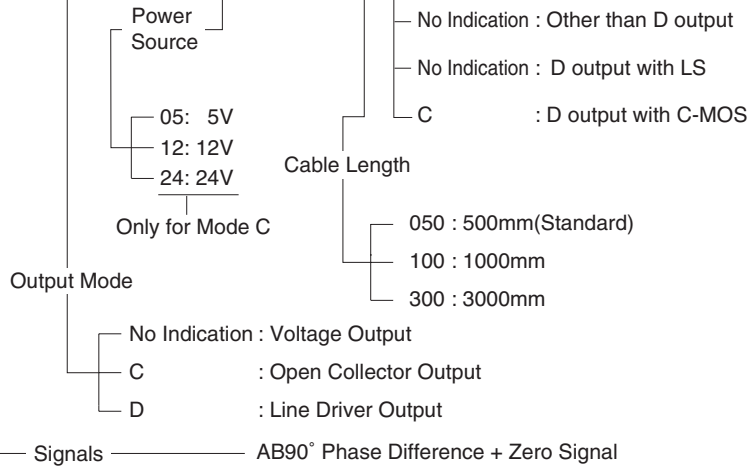
Model

OEZ - [] [] **- 2M** [] - [] [] - [] [] [] - [] **0 0**

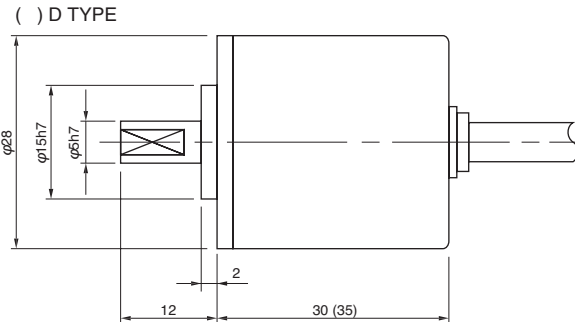
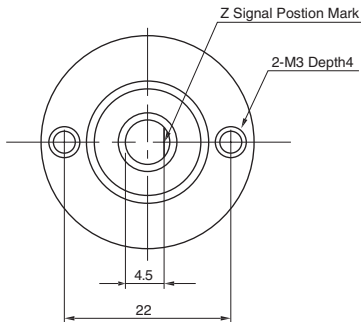
Resolution

0036	36P/R	04	400P/R
005	50P/R	05	500P/R
006	60P/R	0512	512P/R
01	100P/R	06	600P/R
015	150P/R	08	800P/R
02	200P/R	10	1000P/R
025	250P/R	1024	1024P/R
03	300P/R	15	1500P/R
036	360P/R		

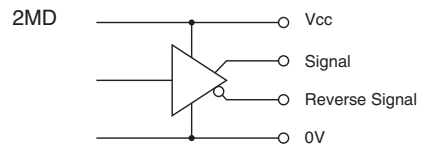
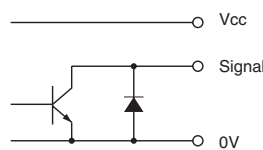
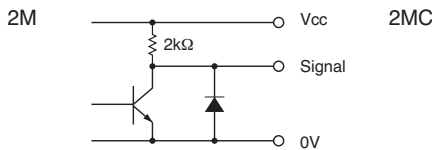
※ Except 24V mode
Please Ask for Alternative Specifications.



External Dimension



Circuit of Output Signal

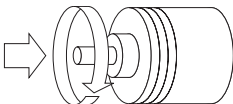


Electrical Spec.

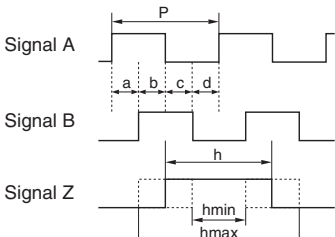
TYPE		2M	2MC	2MC-24	2MD
Supply Voltage		DC 4.5 ~ 5.5 V DC10.8 ~ 13.2V		DC21.6 ~ 26.4V	DC4.75 ~ 5.25V
Requirement		80 mA Max	60 mA Max		150 mA Max
Output Voltage	"H"	Within -1 Power Volt			2.5 V or More
	"L" ^{※1}	0.5 V Max			
Maximum Output Current		20 mA MAX			
Rise & Fall Time		1 μs Max			200 ns Max
Maximum Frequency Response		150 kHz			
Withstanding Voltage of Output Tr.		—	50 V MAX.		—

※1) at Maximum Output Current

Wave Form.

CW → Rotating Toward Clockwise Viewed from an Arrow 


Rising point of A-Signal is always at one point while Z-Signal is at H-Level in CW.





$$P = \frac{1}{1\text{Resolution}}$$

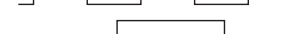
$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8} \quad \frac{P}{2} \leq h \leq \frac{3P}{2}$$


Wave Ratio (Duty); 50 ± 25 (%)


Sig A 

Sig \bar{A} 

Sig B 

Sig \bar{B} 

Sig Z 

Sig \bar{Z} 

Electrical Connections

2M 2MC	Color of Lead Wire	Description
	Red	Power Source
	Black	0V Common
	Green or Blue	Signal A
	White	Signal B
	Yellow	Signal Z
	Shielding Braid	NC

2MD	Color of Lead Wire	Description	Color of Lead Wire	Description
	Red	Power Source	White	Signal B
	Black	0V Common	Gray	Signal \bar{B}
	Green	Signal A	Yellow	Signal Z
	Blue	Signal \bar{A}	Orange	Signal \bar{Z}
	Shielding Braid	NC		

Mechanical Spec.

Starting Torque	9.8×10 ⁻⁴ N · m Max	
Angular Acceleration	1×10 ⁵ rad/s ²	
Shaft Loading	Thrust axial	4.9N
	Radial	9.8N
Moment of Inertia	2×10 ⁻⁷ kg · m ²	
Maximum RPM	6000r/min	
Net Weight	60g Max	

Environmental Spec.

Operating Temperature	-10°C ~ +60°C
Storage Temperature	-20°C ~ +80°C
Humidity	RH 85% Max No Condensation
Vibration	10~50 Hz / 1.5mm 2 h
Shock	294m/s ² , 11ms X, Y, Z Each 3 times
Degree of Protection	IP50

Headquarter Switzerland:
Angst+Pfister Sensors and Power AG

Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:
Angst+Pfister Sensors and Power
Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 0
sensorsandpower.de@angst-pfister.com



We are here for you. Addresses and Contacts.

Sales Germany & Austria

Geometrical sensors
Other products

Kurt Stritzelberger
Phone +49 89 374 288 87 22
kurt.stritzelberger@angst-pfister.com

Pressure sensors
Other products

Gerhard Vetter
Phone +49 89 374 288 87 26
gerhard.vetter@angst-pfister.com

Gas sensors and modules

Peter Felder
Phone +41 44 877 35 05
peter.felder@angst-pfister.com

Sales Switzerland & Liechtenstein

Postcode 3000 – 9999

Basil Frei
Phone +41 44 877 35 18
basil.frei@angst-pfister.com

Postcode 1000 – 2999

Christian Mohrenstecher
Phone +41 76 444 57 93
christian.mohrenstecher@angst-pfister.com

Sales International Key Accounts

Peter Felder
Phone +41 44 877 35 05
peter.felder@angst-pfister.com

Sales Other Countries / Product Management

Pressure Sensors
Load Cells

Philipp Kistler
Phone +41 44 877 35 03
philipp.kistler@angst-pfister.com

Gas sensors
Gas sensor modules

Dr. Thomas Clausen
Phone +49 89 374 288 87 24
thomas.clausen@angst-pfister.com

Flow / Level / Medical products

Dr. Adriano Pittarelli
Phone +49 89 374 288 87 67
adriano.pittarelli@angst-pfister.com

Power supplies

Sebastiano Leggio
Phone +41 44 877 35 06
sebastiano.leggio@angst-pfister.com

Linear position sensors
Angle sensors

Eric Letsch
Phone +41 44 877 35 14
eric.letsch@angst-pfister.com

Accelerometers
Sensor elements

Christoph Kleye
Phone +49 89 374 288 87 61
christoph.kleye@angst-pfister.com

Drive technology
CH Postcode 5000 – 9999 / DE

Roman Homa
Phone +41 76 444 00 86
roman.homa@angst-pfister.com

Drive technology
CH Postcode 1000 – 4999 / AT / IT / FR

Christian Mohrenstecher
Phone +41 76 444 57 93
christian.mohrenstecher@angst-pfister.com

Harald Thomas
Phone +49 89 374 288 87 23
harald.thomas@angst-pfister.com