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TECHNOLOGY GROUP

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with experienced engineers and technicians on staff.

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Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Find the *Nemicon OVW2-25-2MD* at our website: *Click HERE*

SHAFT TYPE

OVW-2 Model



Economical Model

- Practical Length Reduction from 38mm to 30mm.

Model

OVW2 – □□ – □□ □ – □ – □□□ – □ 0 0

- Resolution
- Output Mode
- Option
- Cable Length

002	20P/R	05	500P/R
003	30P/R	0512	512P/R
0032	32P/R	06	600P/R
004	40P/R	08	800P/R
005	50P/R	09	900P/R
006	60P/R	10	1000P/R
01	100P/R	1024	1024P/R
0125	125P/R	12	1200P/R
02	200P/R	15	1500P/R
0250	250P/R	18	1800P/R
0256	256P/R	20	2000P/R
03	300P/R	2048	2048P/R
036	360P/R	25	2500P/R
04	400P/R	36	3600P/R

Cable Length
- 050 : 500mm (Standard)
- 100 : 1000mm
- 300 : 3000mm

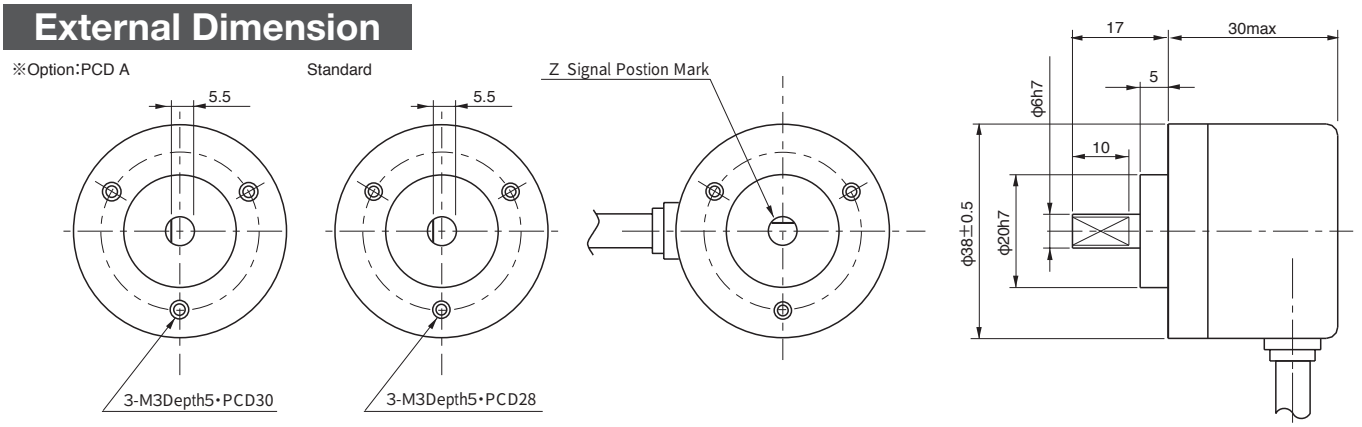
Option
- No Indication: Standard(PCD28)
- A : PCD A

Output Mode
- No Indication : Voltage Output
- C : Open Collector Output
- HC : Open Collector Output / High Voltage
- HCP : PNP Mode Open Collector Output / High Voltage
- HT : Push-Pull Output / High Voltage
- D : Line Driver Output
  Low Power Consumption C-MOS Output Available

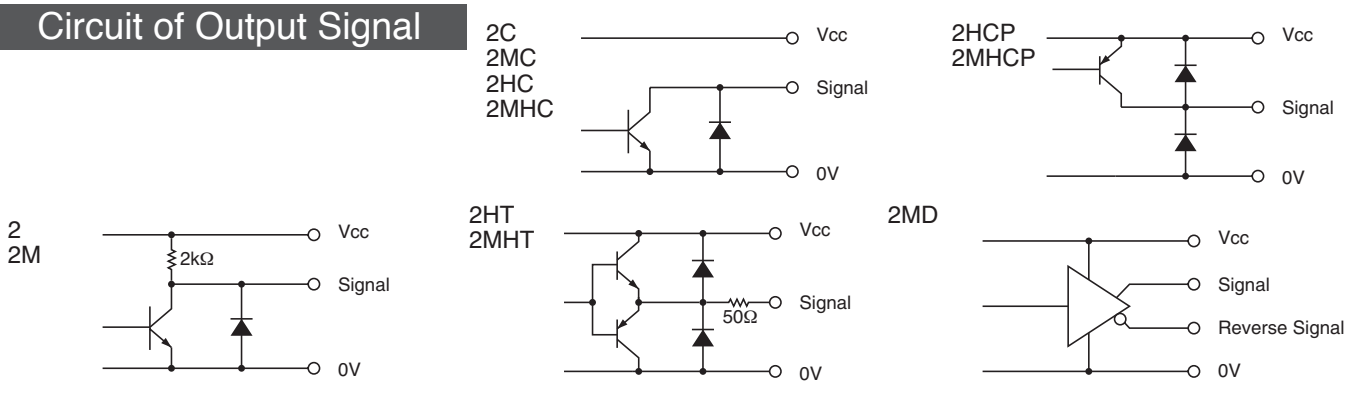
Signals
- 2 : AB90° Phase Difference
- 2M : AB90° Phase Difference + Zero Signal

□ 0 0
- No Indication : Other than D output
- No Indication : D output with LS
- C : D output with C-MOS

External Dimension



Circuit of Output Signal



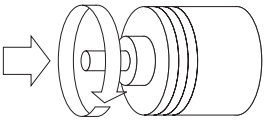
Electrical Spec.

※1) at Maximum Output Current ※2) Maximum Source Current

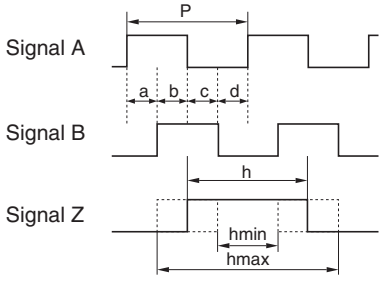
TYPE		2 • 2M	2C•2MC	2HC•2MHC	2HCP•2MHCP	2HT•2MHT	2MD
Supply Voltage		DC4.5 ~ 13.2 V		DC10.8 ~ 26.4 V			DC4.75 ~ 5.25V C-MOS DC4.5 ~ 5.5V
Requirement		80 mA Max	60 mA Max		100 mA Max	90 mA Max	150 mA Max C-MOS60 mA Max
Output Voltage	"H"	Within –1 Power Volt	———		Within –1※2 Power Volt	Within –3 Power Volt	2.5 V or More
	"L" ※1	0.5 V Max			———	3 V Max	0.5 V Max
Maximum Output Current		20 mA MAX				40 mA MAX	20 mA MAX
Rise & Fall Time		1 μs Max					200 ns Max
Maximum Frequency Response		200 kHz			50 kHz	200 kHz	
Withstanding Voltage of Output Tr.		———	50 V MAX.		———		

Wave Form.

CW → Rotating Toward Clockwise Viewed from an Arrow



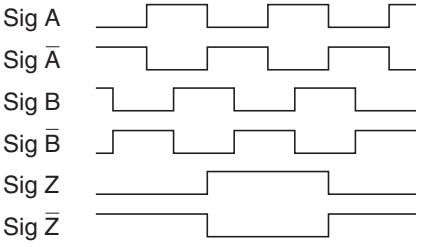
Rising point of A-Signal is always at one point while Z-Signal is at H-Level in CW.



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

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

Wave Ratio (Duty); 50 ± 25 (%)



Electrical Connections

2
2M
2C
2MC
2HC
2MHC
2HCP
2MHCP
2HT
2MHT

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 $\overline{B}$
Black	0V Common	Gray	Signal $\overline{B}$
Green	Signal A	Yellow	Signal Z
Blue	Signal $\overline{A}$	Orange	Signal $\overline{Z}$
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	19.6N
	Radial	29.4N
Moment of Inertia		8×10^{-7}kg • m^2
Maximum RPM		6000r/min
Net Weight		100g Max

Environmental Spec.

Operating Temperature	–10˚C ~ +70˚C
Storage Temperature	– 30˚C ~ +80˚C
Humidity	RH 85% Max No Condensation
Vibration	10~55 Hz / 1.5mm 2 h
Shock	490m/s^2,11ms X, Y, Z Each 3 times
Degree of Protection	IP50

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