## ROTRANS \& <br> SWISS MADE <br> R \& D <br> ENCODER for Rotary signal transmitters



- 20'000 rpm (limit of the encoder) ROTRANS alone (42'000 rpm)
- 10-10'000 impulses (according rpm / Fz)
- Incremental
- IP 42 / IP 64 (<6'000 rpm)
- Choice of input /output
- Absolute available
- Multiturn available

The Rotational Transmitter ROTRANS could be associate to an encoder.

The proposed encoder is a very high speed encoder typically in the line of ROTRANS, it run till $12^{\prime} 000$ rpm and can reach $20^{\prime} 000 \mathrm{rpm}$ during short term. This cover a large part of the application, and specially in the automotive industry and formula 1.

A large choice of possibility is naturally available, but we want to propose you a standard version in order to be as quick as ROTRANS by delivery time and to attractive conditions for you.

Please let us know your specific needs. We are looking forward to discussing your application with you.


On this drawing are presented all dimensions concerning the encoder, and the dimensions and technical data are in the datasheet concerning ROTRANS $04,08,12$.

## Technical data - Encoder only

| Speed ranges | $12^{\prime} 000 \mathrm{rpm}$ guaranty and 20'000 rpm according application during <br> short term operation (ROTRANS alone : 42'000 rpm) |
| :--- | :--- |
| Voltage Supply | $5 \mathrm{VDC} \pm 10 \%(\mathbf{0 5 A})$ |
|  | $4,5-30 \mathrm{VDC}(\mathbf{2 5 W})$ |
| Switching frequency max | $10-30 \mathrm{VDC}(\mathbf{2 4 K})$ |
|  | $300 \mathrm{kHz}(\mathbf{2 4 K})$ |
|  | $300 \mathrm{kHz}(\mathbf{0 5 A} / \mathbf{2 5 W})$ |
| Output signal | $750 \mathrm{kHz}\left(\mathbf{0 5 A}>\mathbf{5}^{\prime} \mathbf{0 0 0}\right.$ impulses) |
|  | $\mathbf{0 5 A}: 5 \mathrm{VDC}$ complementary (TTL compatible) |
|  | $\mathbf{2 4 K}: 10-30 \mathrm{VDC}$ push-pull, short-circuit protection |
|  | $\mathbf{2 5 W}: 4,5-30$ VDC push-pull, complementary short-circuit |
| protection |  |

$\boldsymbol{f m a x}_{(\mathrm{Hz})}=\frac{\text { Speed }_{(\mathrm{rpm})} \mathrm{x} \text { number of impulses }}{60}$
The impulses number given below, could be multiply:

- by 2 when using channel A
- by 4 when using channels A \& B


## Ordering information



## ENC.1.aaa.bbbbb

aaa $=$ voltage supply
.05A 5 VDC complementary
.24K 10-30 VDC push-pull, short-circuit protection
.25W 4,5-30 VDC push-pull, complementary short-circuit protection
bbbbb = number of impulses :

| $\mathbf{1 0}$ | $\mathbf{1 2 0}$ | $\mathbf{1 0 0 0}$ | $\mathbf{3 6 0 0}$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| $\mathbf{3 0}$ | $\mathbf{2 0 0}$ | $\mathbf{1 0 2 4}$ | $\mathbf{5 0 0 0}$ |  |  |
| $\mathbf{5 0}$ | $\mathbf{2 5 0}$ | $\mathbf{1 2 5 0}$ | $\mathbf{7 2 0 0}^{*}$ | * available with the proposed |  |
| $\mathbf{6 0}$ | $\mathbf{3 6 0}$ | $\mathbf{2 0 0 0}$ | $\mathbf{8 1 9 2}^{*}$ | output $\mathbf{0 5 A}$ or $\mathbf{2 4 K}$ only |  |
| $\mathbf{1 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{2 5 0 0}$ | $\mathbf{1 0 0 0 0}^{*}$ |  |  |

Other impulse possibility on request

## Circuit diagrams

## 24K



05A


25W

(1)

Due to the continual development of our products, the specification may be modified without forewarning.

