## 1. High speed angle measurement with direction control

The angle position of a very fast rotating shaft should be measured; furthermore the direction of the rotation should be controlled. For this purpose two analog fork light barriers type A-LAS-F12$0.2 \times 0.5-10 / 50$ in connection with an amplifier type A-LAS-CON1 are used. At this, a metal disk which comes with teeth ( 1 mm width and 1 mm gap) is used as an encoder disk. The laser spots of both laser sensors are directed in a way as shown in the drawings; thus in parallel to the angle position measurement the direction of the rotation can be con be proper controlled as shown in the screen shots.


A-LAS sensor
A $\square \square$






| Sensor Instruments CmbH Tel. + +49 (0) 8544-9719-0 http:/Nwww seensorinstruments de |  |  |  |
| :---: | :---: | :---: | :---: |
| 7) CONNECT CHANA CHANB |  |  |  |
| RECORDER | osa | GEN SEITINGS | UN. |
|  | CHANNEL A |  |  |
| Source Power [digits] |  |  |  |
| Hysteresis ${ }^{0}$ Triggorievel [digts] 1000 |  |  |  |
| \% 8 20 |  |  |  |
|  |  |  |  |
| Start timer ${ }^{0}$ | Count events 2000 |  |  |
| Never | $\checkmark$ | Never |  |
| Norming <br> ON - | $\begin{gathered} \text { Digtal output } \\ \text { Newn } \end{gathered}$ | $\begin{aligned} & \text { Hold } \\ & \text { ut on } \\ & \text { ver } \end{aligned}$ | $\stackrel{s t i m e}{ }$ |
| Evaluation condition |  |  |  |
|  | Contin | nuous |  |
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| ${ }^{\text {Average }}$ - Evalmode |  |  |  |
| [ RAM$\Gamma_{\text {ROM }}$FILE | SEND | GO VIEEO |  |
|  | GET | STOP |  |


$\operatorname{gap}$

