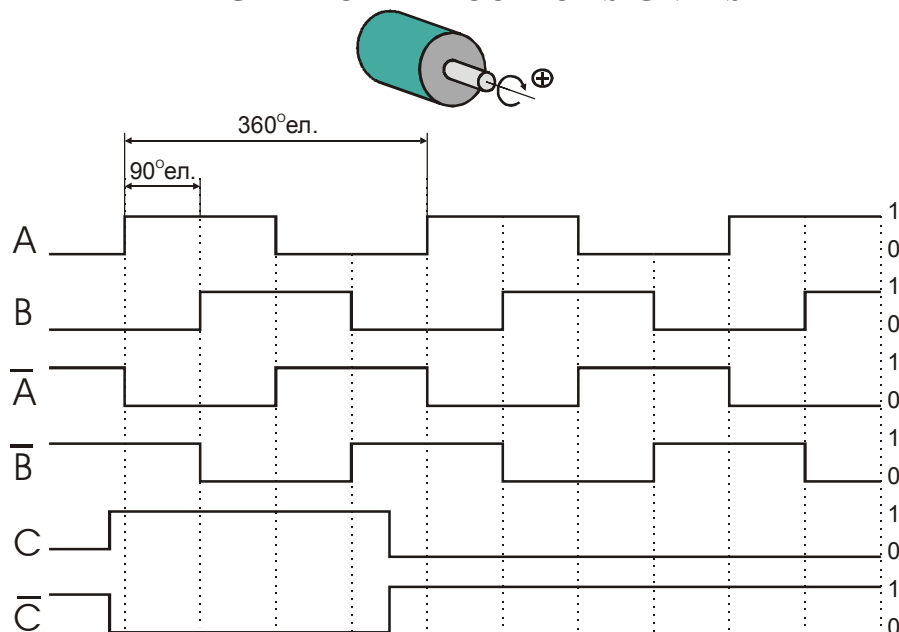


TECHNICAL DATA
FRP-6A

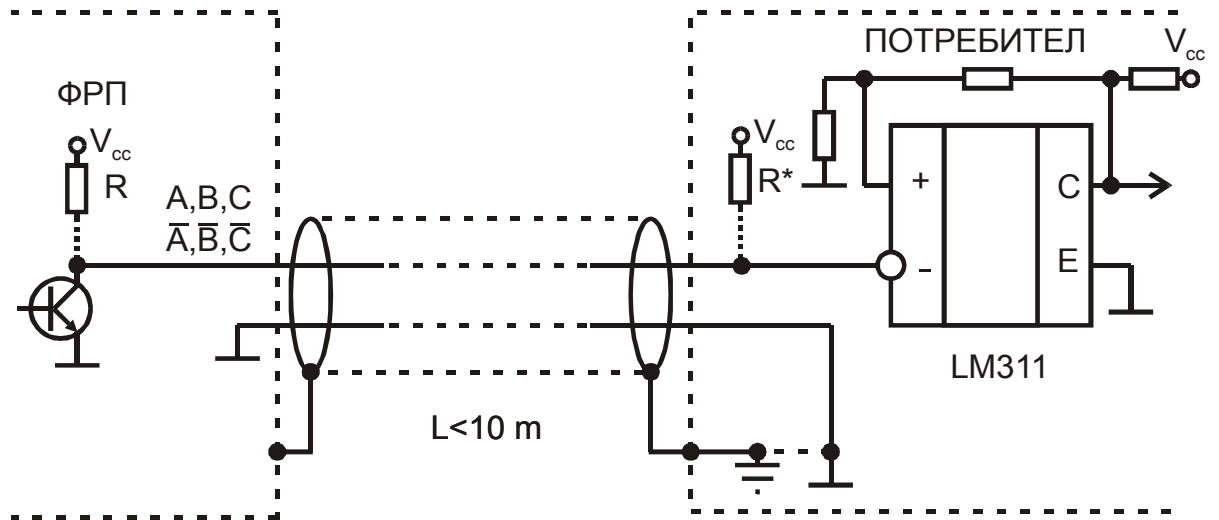
| | |
|--|--|
| Number of pulses per revolution N | 500, 1024 |
| Maximum number of positions per revolution | $i=4.N$ |
| Supply voltage | $+5V \pm 5\% / 150mA^*$ |
| Output signals | |
| channels | A, B, C, \bar{A} , \bar{B} , \bar{C} |
| phase shift | $90^\circ \pm 36^\circ$ el. |
| pulse duty factor | $0,5 \pm 0,1$ |
| maximum frequency f_{max} | 60 kHz |
| Level of output signals with a built-in resistor 12kΩ | |
| log"0" | $\leq 0,5V$ |
| log"1" | $\geq 2,5V \leq 5,25$ |
| Open collector | |
| Maximum collector voltage | $\leq 30V$ |
| Maximum collector current | $\leq 30mA$ |
| Maximum admissible revolutions | 6000 min^{-1} |
| Maximum working revolutions | $n = 60000 \cdot f_{\max} / N \text{ min}^{-1}$ $f_{\max} [\text{kHz}]$, $N [\text{pulses/rev.}]$ |
| $N=1024 \text{ pulses/rev.}, f_{\max}=60 \text{ kHz. } n=60 \cdot 000 \cdot 60 / 1024 = 3516 \text{ min}^{-1}$ | |
| Operating temperature | $-40^\circ C$ to $+65^\circ C$. |
| Storage temperature | $-60^\circ C$ to $+70^\circ C$. |
| Admissible relative humidity | 85% at $25^\circ C$ |
| Degree of protection | IP 41 |
| Maximum shaft load | |
| Radial | 10 N |
| Axial | 5N |
| Weight | 0,250 kg. |
| Recommended coupler | MC-35 |

* On request – built-in DC/DC converter +10V ÷ +30V DC.

DIAGRAM OF THE OUTPUT SIGNALS



RECOMMENDED ELECTRICAL CONNECTION



*Resistor **R** can be connected at customer premises

OUTPUT CABLE A,B,C

| Function | Colour |
|----------|------------|
| +5V | pink/white |
| 0V | yellow |
| A | blue |
| B | green |
| C | black |

OUTPUT CABLE A,B,C, \bar{A} , \bar{B} , \bar{C}

| Function | Colour |
|-----------|-------------------|
| +5V | blue/white |
| 0V | black |
| A | orange |
| B | blue |
| C | green |
| \bar{A} | white from orange |
| \bar{B} | white from blue |
| \bar{C} | white from green |
| casing | shield |

DIMENSIONS

