

Incremental Rotary Encoders IRC 120 and 125

Due to the continuously high demand for the replacement parts of these encoders, we decided to modernize these encoders, as well as, to increase the end-use properties and particularly the device reliability. The principal disadvantage of the older models is the obsolete, mainly electronic component base (up to 20-year-old). For this reason, the longterm functionality may not be guaranteed any more. The innovated types feature the current electronics of the IRC3x5 series with a LED light source covered by the IRC120 and 125 case.



Some other divisions (pulses per revolution) are not available with this new line. For more details, see the information below. The resistor 47R/0.6W is connected to the connector pins Z, Z (the bulb power supply) to simulate the bulb current. If the evaluation system does not include this function, there is no need to connect these pins.

Type Designation



5 - external shaft Ř 8 mm

Dimensioned drawing





IRC120



Technical Parameters

	IRC120, IRC125
Power Supply	+ 5 V ± 5 %
Max. Self Consumption	100 mA
Output Signal	Line Driver RS422 - TTL compatible
Max. Load of Output Channels	± 20 mA
Output Frequency	200 kHz
Max. speed	10000 ot./min
Protection	IP54
Weight	0,5 kg
Working temperature	0 to + 60 ⁰ C

Output signals IRC120 and 125

2 basic signals (1,2) moved by 90° electric, 1 zero impulse (3) and their negation. For frequecies higher than 100kHz zero pulse is not guaranteed.



Change of technical parameters reserved

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