Economy Types

- Economy encoder
- High protection IP 65
- Push-pull or NPN-O.C.
- Applications, e.g.
  - textile machinery

NUMBER OF PULSES

5 / 10 / 20 / 25 / 28 / 32 / 50 / 60 / 72 / 100 / 128 / 144 / 200 / 250 / 256 / 288 / 300 / 360 / 400 / 500 / 512 / 600 / 720 / 900 / 1000 / 1024
Other number of pulses on request

TECHNICAL DATA mechanical

Shaft diameter	6 mm
Absolute max. shaft load	radial 10 N, axial 5 N
Absolute max. speed	10 000 min^{-1}
Torque	≤ 1 Ncm
Protection class (EN 60529)	Housing IP 65, bearings IP 64
Operating temperature	0 … +60 °C
Storage temperature	–25 … +85 °C
Vibration resistance (IEC 68-2-6)	100 m/s^2 (10 … 2000 Hz)
Shock resistance (IEC 68-2-27)	1000 m/s^2 (6 ms)
Connection	1.5 cable axial [1]
Material	Housing: plastic, Flange: aluminium
Flange	Pilot flange
Weight approx.	75 g

[1] Other cable length on request

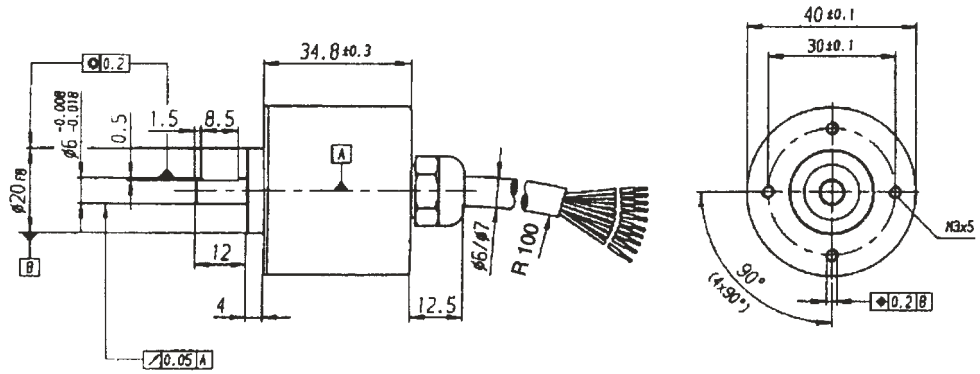
TECHNICAL DATA electrical

General design	as per DIN VDE 0160, protection class III, contamination level 2, overvoltage class II
Supply voltage (SELV)	with push-pull (D): DC 5 V ±10 % with push-pull (K): DC 5 V [1] ±10 % oder DC 10 - 30 V [1] with push-pull complementary (I): DC 10 - 30 V [1] at NPN-O.C. (S): DC 10 - 24 V [1]
Max. current w/o load	40 mA (DC 5 V), 30 mA (DC 24 V) with push-pull (K,I) 40 mA (DC 24 V), bei NPN-O.C. (S)
Standard output versions	push-pull [2] / push-pull complementary [2] /NPN-O.C. [3]

[1] Pole protection
[2] Output description and technical data see chapter “Technical basics”
[3] NPN-O.C. with internal pull-up resistor = 10 KΩ , max. pulse frequency = 50 KHz, max. output lead = ± 30 mA, tolerance ± 30° electrical, delay time 4µs

Economy Types

DIMENSIONAL DRAWINGS



R for alternating bending > 100 mm
R for permanent bending > 40 mm

PIN ASSIGNMENT

Colour (PVC)	Output circuit push-pull (K, D), Open Collector (S)	 push-pull complementary (I)
white	Channel A	Channel A
white/brown		Channel $\overline{A}$
green	Channel B	Channel B
green/brown		Channel $\overline{B}$
yellow	Channel N	Channel N
yellow/brown		Channel $\overline{N}$
yellow/black	$\overline{Alarm}$	$\overline{Alarm}$
yellow/red		Sense V_{CC}
red	DC 5/10 - 30/10 - 24 V	DC 10 - 30 V
black	GND	GND

ORDERING INFORMATION

Type	Model	Number of pulses	Supply voltage	Flange, Protection, Shaft	Output	Connection
RI42-	**0** Standard	**5 … 1 024**	**A** DC5 V [1] **E** DC 10 - 30 V [2] **C** DC 10 - 24 V [3]	**R.41** Pilot, IP64, 6 mm	**K** push-pull [4] short circuit proof **D** push-pull 5 V, ± 30 mA **S** Open Collector NPN **I** push-pull complementary	**A** Cable axial

[1] only with output K, D
[2] only with output K, I
[3] only with output S
[4] ±10 mA at 5 V, ±30 mA at 10 - 30 V