

Incremental shaft encoder

BSM

features

- subminiature shaft encoder
- \varnothing 18 mm diameter
- high resolution with 500 pulses
- standard with zero pulse



general data

voltage supply	4,5 - 5,5 VDC \pm 10%
max. supply current no load	typ. 20 mA (at 5 VDC) (05K)
max. measuring steps	2000 steps
pulse range	see order designation
pulse tolerance	\pm 15%
switching frequency fmax.	100 kHz

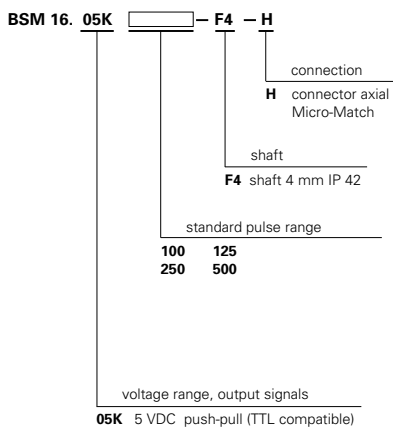
mechanical data

max. revolutions	12'000 /min
rotor inertia	typ. $7,9 \times 10^{-9}$ kgm ²
torque	typ. 0,03 cNm (3000 rev/min 20 °C)
max. shaft load	axial: 3 N radial: 6 N
product life	depending on ambient conditions (typ. 10 ⁹ revolutions)
max. protection class	shaft: IP 42 housing: IP 32
material	PBT Crastin
weight	approx. 10 g

ambient conditions

temperature range	-20...+85 °C
relative humidity	max. 95% non condensing
vibration	IEC 68 section 2-6 (≤ 100 m/s ² / 10 - 200 Hz)
shock	IEC 68 section 2-27 (≤ 500 m/s ² / 11 ms)
noise immunity	EN 50 082 - 2 EN 61000 - 4 - 2 to 4 severity grade 3
emitted interference	EN 50 081 - 2

order designation



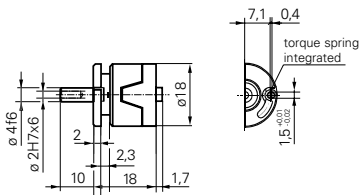
* line driver on request

accessories

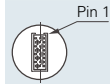
connector Micro-Match	part nr. 123191
mounting clamps	part nr. 106004
cable with connector length 1 m (pre-assembled)	part nr. 130165



dimensions and connection dimensions



assignment connector Micro-Match



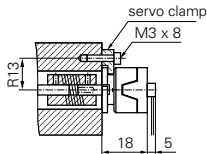
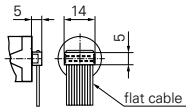
05K (5 VDC push-pull)

pin number	signals
1	n.c.
2	+Vs
3	CHB
4	CHA
5	0V
6	n.c.
7	CHN
8	d.u.

d.u. = dont use

Incremental

with connector Micro-Match



mounting shaft

