E320 VAR 504

Electro-Magnetic Toothed Clutch

Characteristics
- Electrically operated 24 or 103,5 VDC depending size
- Toothed clutch
- Activated by power on

Utilisation
- Coupling of a pulley or a hub
- Engagement has to be made at standstil or at very low speed, in case of doubt consult the factory
- For wet operation use models VAR n0
  For dry operation use models VAR n4 (sealed bearings)

Particularities
- Positive coupling for drive without slipping
- Standard available for random or synchronised operation (one or more position(s)/rev).
  Multiposition/rev as option (VAR n0 or VAR n4, “n” indicates number of positions)
- Fixed inductor mounted on ball bearings
- Non sealed bearings for use oil environment
- Sealed bearings for dry operation

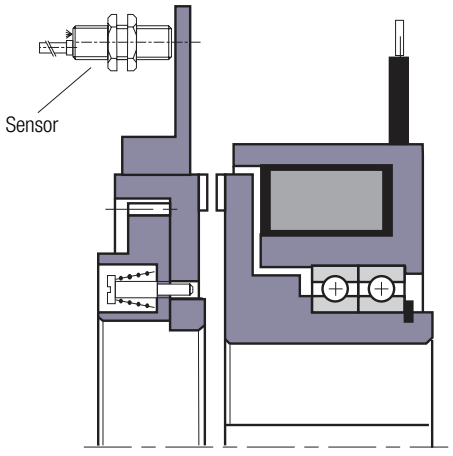
Adjustments
- Verify position of tooth “J” prior to installation
- No wear adjustment required

Maintenance Manual
- SM 309

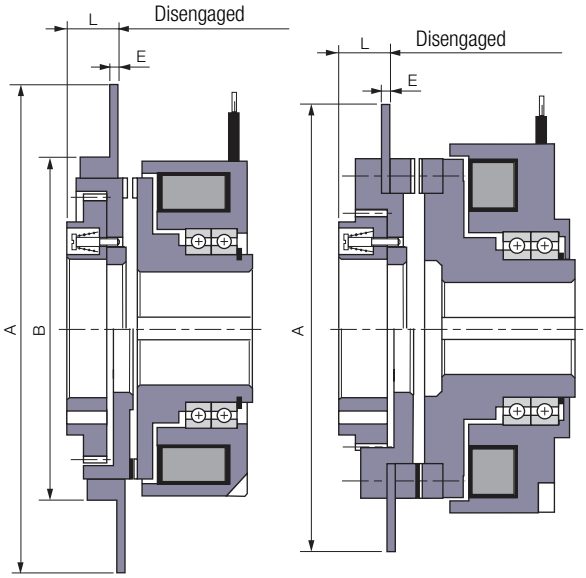
Mounting Precautions
- The anti-rotation device of the electromagnet shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball bearings.
- It is forbidden to use in case of vibrations
- Device intended for horizontal use; for vertical use, please consult the factory

Power Supply
- For sizes until 3200
  CBC 400–24 , CBC 450–24,
  CBC 140–5 + CBC 140–T
- For sizes 6400 to 25600
  CBC 140–5

Mounting Example



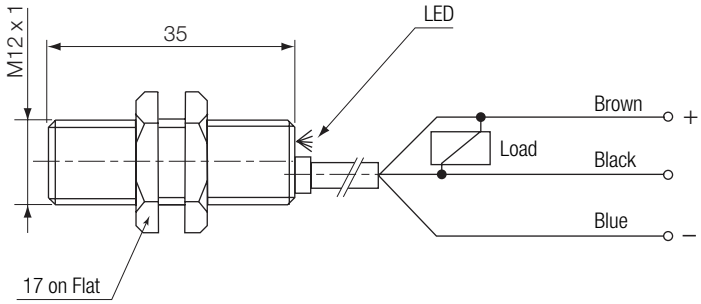
Connector Options
(Delivered without cable)
2 poles, capacity : 0,5/2,5mm^2



Size 50 - 1600 Size 3200 - 25600

Other dimensions, see page 39

Inductive Proximity Sensor



Part number BT768000124

Sizes		50	100	200	400	800	1600	3200	6400	12800	25600
A		135	152	168	178	205	250	288	400	465	540
B		88	104	120	132	158	205	235	–	–	–
E		3	3	3	3	3	3	3	5	5	5
L		12	14	15,5	16	20,5	28	40	37,5	42	59,5
Inertia*	[kgm²]	0,0003	0,0005	0,0007	0,0010	0,0020	0,0043	0,017	0,081	0,142	0,242

* Value to be added to Inertia (2), see page 39.

INDUCTIVE PROXIMITY SENSOR
with built-in electronic board

Characteristics

Rate operating distance (steel target)	2 mm
Monting	shilded
Switching element function	Normally open
Cable	NPN, 3 x 0,34 mm², 2 m
Usable supply voltage	18 V... 30 VDC
Ripple voltage	10 %
No load supply voltage	10 mA
Rated operational current	120 mA
Voltage drop	1,5 V
Off-state current	10 µA
Short circuit protection	yes
Overload protection	yes
Reverse battery protection	yes
Wire break resistance	yes
EMC	Group A
Operating frequency	2000 Hz
Hysteresis	15 %
Temperature drift	10 %
Repeat accuracy	10 %
Housing	Nickel-plated brass
Front cap	PBTP
Degree of protection (EN 60529)	IP 67
Ambiant air temperature	–25°C... +70°C
Part number	BT768 000 124