

# E330 VAR 504

## Electro-Magnetic Toothed Clutch

### Characteristics

- Electrically operated 103,5/48 or 207/103,5 VDC depending size
- Toothed clutch
- Activated by spring pressure

### Utilisation

- Coupling of a pulley or a hub
- Engagement has to be made at standstill or at very low speed, in case of doubt consult the factory
- Destined to remain coupled over long periods

### Particularities

- This device works with two voltages: one for disengagement, one for position maintain
  - Positive coupling for drive without slipping
  - Standard available for random or synchronised operation (one or more position(s)/rev). Multiposition/rev as option (VAR n4, "n" indicates number of positions)
- Fixed inductor mounted on ball bearings  
Sealed bearings

### Adjustments

- Verify position of tooth "Q" prior to installation
- No wear adjustment required

### Maintenance Manual

- SM 310

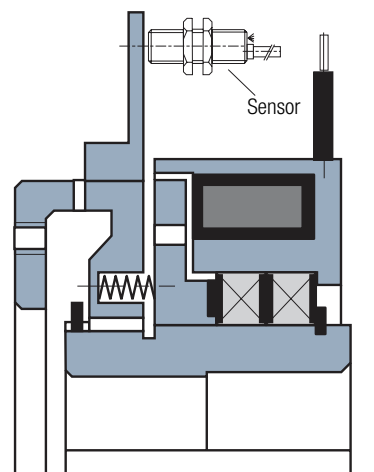
### Mounting Precautions

- 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
- The customers mounting method must take into account the axial thrust

### Power Supply CBC 140-5

- Overexcitation delay: 0,5 s (size 50) to 2 s (size 12800)

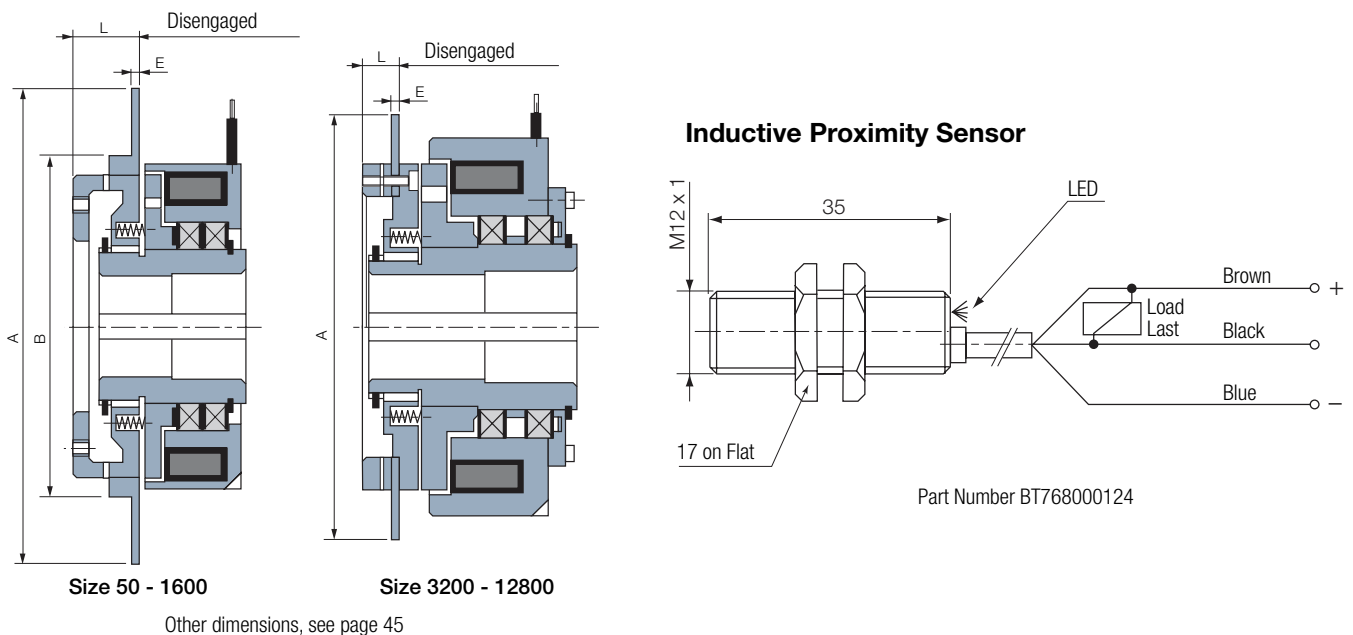
### Mounting Example



### Connector Options

(Delivered without cable)  
2 poles, capacity : 0,5/2,5mm<sup>2</sup>

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Sizes	50	100	200	400	800	1600	3200	6400	12800
<b>A</b>	152	168	178	205	250	300	344	400	465
<b>B</b>	104	120	132	158	205	245	-	-	-
<b>E</b>	3	3	3	3	3	3	4	5	5
<b>L</b>	23	23	24,5	32	37	53	42,5	48	62
<b>Inertia*</b>	[kgm <sup>2</sup> ]	0,0003	0,0005	0,0007	0,0010	0,0020	0,0043	0,017	0,142

\* Value to be added to Inertia (2), see page 45.

### INDUCTIVE PROXIMITY SENSOR with built-in electronic board

#### Characteristics

Rate operating distance (steel target)	2 mm
Mounting	shilded
Switching element function	Normally open
Cable	NPN, 3 x 0,34 mm <sup>2</sup> , 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
Ambient air temperature	-25°C... +70°C
Part number	BT768000124