

**No-shaft brushless resolver  
Bürstenloser Hohlwellen Resolver**

**Type RE 15L1V16**



- Accuracy  $\pm 10$  Min. ( $\pm 6$  Min.)
- Mounting directly on shaft
- No coupling needed
- No brushes or contacts
- No bearings

How to order  
Type  
Mounting bride incl. bolts (2 pieces)

Brushless Resolver  
RE15L.1.V16.10.10  
BMR (M3 x 8)

Type

RE15L.1.V16.x.x

Housing dimension  
Number of pole pair  
Electrical values  
Accuracy  
Accuracy on request  
Bore diameter  
Option

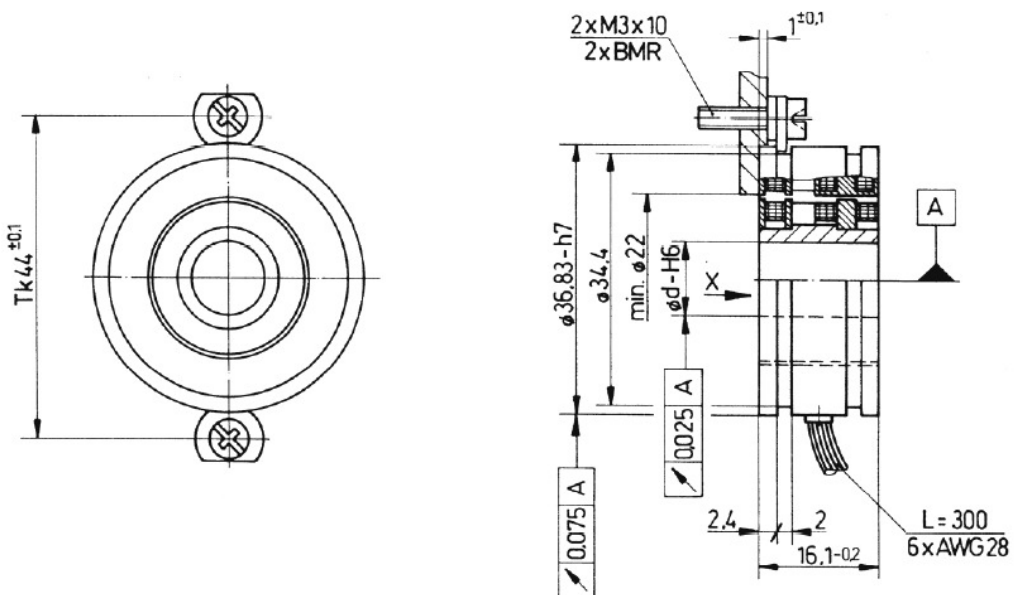
36.83 x 16.1 mm  
1  
V 16  
10  $\pm 10$  Min.  
06  $\pm 6$  Min.  
10  $\varnothing 10$   
06  $\varnothing 6$

Mechanical data  
Shock  
Vibration  
Rotor moment of inertia  
Hi-Pot  
Operating temperature  
Weight

11 ms  $\leq 10000$  m/s<sup>2</sup>  
10 ... 500Hz  $\leq 500$  m/s<sup>2</sup>  
0.02 x 10<sup>-4</sup> kgm<sup>2</sup>  
500V at 50Hz  
-55°C +155°C  
 $\approx 90$ g (Rotor 25g)

**Outline drawing**

**Size 15**



**Type RE 15L1V16**

Electrical connection	at +25°C
Input voltage	5 V eff.
Input current	40 mA
Frequency	4 kHz
Null voltage	30 mV Max
Ripple	Max. 1%
Transformation ratio	$0,5 \pm 10\%$
<b>Impedance</b>	
Z <sub>ro</sub>	$62 + j 105 \Omega$
Z <sub>rs</sub>	$58 + j 90 \Omega$
Z <sub>so</sub>	$173 + j 225 \Omega$
Z <sub>ss</sub>	$160 + j 195 \Omega$
<b>Phase Shift</b>	
	$4^\circ \pm 3^\circ$
<b>D.C. Resistance (nom.)</b>	
Stator	$102 \Omega \pm 10\%$
Rotor	$19 \Omega \pm 10\%$
Red-White	R <sub>1</sub> Rotor
Black-White	R <sub>2</sub>
Red	S <sub>1</sub> Stator
Black	S <sub>3</sub>
Yellow	S <sub>2</sub>
Blue	S <sub>4</sub>

