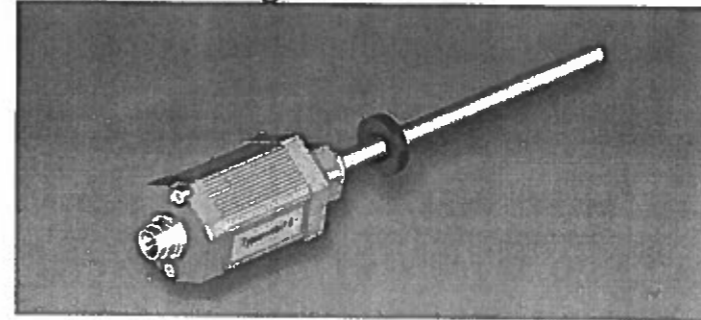


**GNC T Series Transducer**  
up to 4500 mm  
non-contacting absolute



**Characteristics:**

- non-contact magnetostrictive NOVOSTRICTIVE measuring Process
- Highly integrated Transducer
- Module structure IP67 housing
- non-contact guiding with ring-shaped position marker
- insensitive to shock and vibration
- high-dynamic serial DyMoS interface with data transmission interface
- unlimited mechanical life
- ring-shaped position marker with unlimited speed
- outstanding linearity performance up to 30 µm
- resolution up to 0.001 mm regardless of stroke length
- low temperature coefficient < 20 ppm/K
- optional cable out or quick disconnect
- operating pressure up to 350 bar
- Bushing M 18 x 1.5 & 3/4 16UNF
- Analogue interface with set function

Transducers employing the NOVOSTRICTIVE non-contact magnetostrictive measuring process for direct, precise and absolute measurement of travel and length in control positioning and measuring technology.

The measurement is accomplished using a passive position marker which can be moved as a free-floating element. The non-contact coupling version makes installation even simpler, and the wearfree operation means unlimited mechanical life expectancy and unlimited traverse speed of the position marker.

The temperature coefficient of the transducer is extremely low thanks to the measuring principle, design and selected materials.

The high mechanical ruggedness of the transducer combined with the underlying measuring technique mean that the system is highly resistant to shock and vibration.

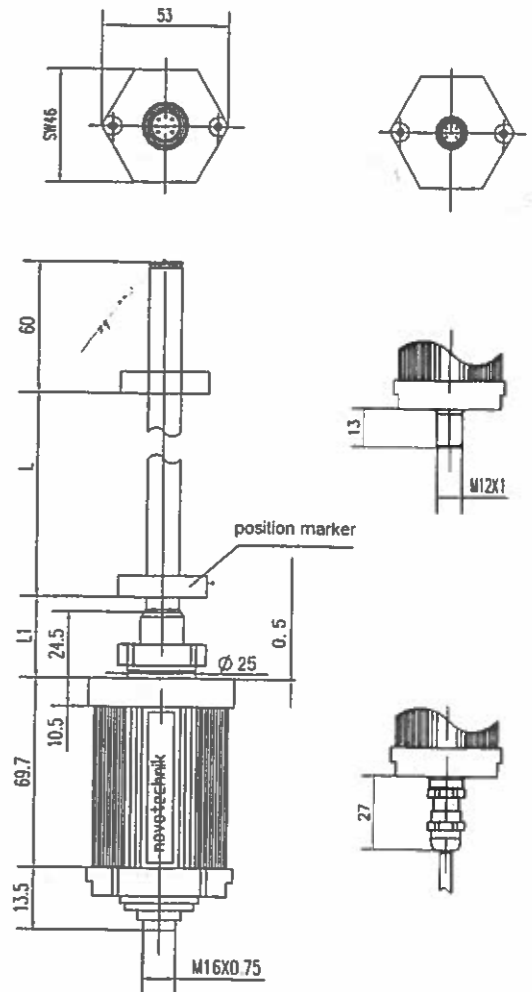
The rod-shape of the transducer allows integration in the pressurized zone of hydraulic and pneumatic cylinders.

The contactless ring-shaped magnet ensures simple fitting of the transducer.

A sophisticated ASIC in the transducer provides for standard absolute output signals. In addition to the familiar interfaces such as the synchronous serial interface (24 or 25 bits) and the Start/Stop pulse interface, a highly dynamic serial "DyMoS" interface with data transfer monitoring is offered.

The advantages of conventional interfaces and bus interfaces have been combined in this Novotechnik "DyMoS" interface.

In addition to the position value, the "DyMoS" interface also allows the actual traverse velocity to be sent. The pulse interface also allows fully tolerated processing of both edges of the Start/Stop signal. As an option, the transducer can also be operated with multiple position marker.



**Explanation for drawing**

|                    |    |           |
|--------------------|----|-----------|
| L1 (Zero position) | 01 | 30mm      |
|                    | 02 | 51mm      |
| L (useful stroke)  |    | 50-4500mm |

| Description           |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Housing               | Anodized aluminium, Rod stainless steel                                            |
| Mounting              | Screw flange M 18 x 1.5 in accordance with ISO6419                                 |
|                       | Screw flange 3/4 16UNF in accordance with SAE J475                                 |
| Position marker       | Ring position marker, plastic                                                      |
| Measuring technique   | Non-contact, magnetostrictive NOVOSTRICTIVE                                        |
| Electrical connection | 8-pin round connector, shielded, M12 x 1                                           |
|                       | 8-pin round connector, shielded, IEC150-9<br>8-conductor cable, shielded, 1 m long |
| Electronics           | Integrated SMD with ASIC<br>Connect cable shield to housing                        |