

Positionmagnet M65, M75

Inner diameter 65 en 75 mm



Technical information

Version 19-02-2025

Magnet M65, M75



- For Temposonics position sensors
- Inner diameter of 65 and 75 mm
- Ideal for sensors in hydraulic cylinders with long lengths and support tubes
- Also suitable for redundant applications with multiple sensors
- Temperature range: -40 to +80 °C
- Material: Stainless steel 316L (1.4404)
- Available in open and closed versions

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Description:

The M65 and M75 are special position magnets designed for Temposonics magnetostrictive sensors. They consist of a stainless steel ring embedded with multiple magnets. These magnets feature a double nickel coating and are encapsulated in epoxy resin, making them resistant to corrosion.

Temposonics position sensors operate based on the magnetostrictive measurement principle and use a magnet to determine position. For sensors designed for use in hydraulic cylinders, various types of magnets are available. The standard magnet has an inner diameter of 13.5 mm. When a cylinder is longer than 2500 mm and used in a horizontal position, Temposonics recommends using a support tube (e.g., 28x4 mm made of non-magnetic stainless steel) to prevent bending. A special magnet with a 30 mm inner diameter is available for this purpose.



To accommodate special applications, the M65 and M75 magnets have been developed with larger inner diameters. These magnets allow the use of support tubes with a larger diameter, significantly reducing deflection in extremely long cylinders. Additionally, they enable off-center sensor placement, providing greater design flexibility for cylinder manufacturers. The magnet is equipped with four mounting holes. These magnets are also used in redundant applications where two or three sensors are placed inside a cylinder.



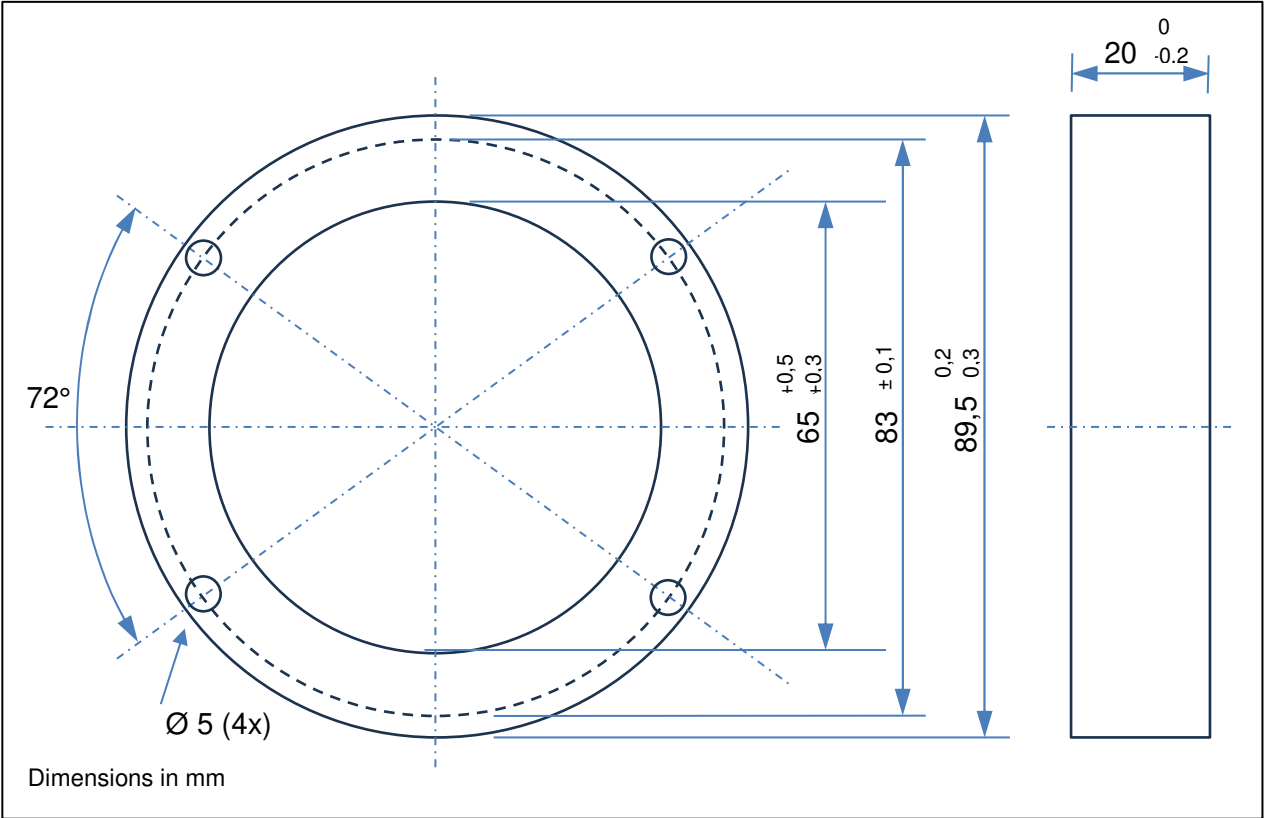
The M65H and M75H models are specifically designed for applications where the Temposonics sensor is mounted alongside the moving object. These magnets feature a 72° cutout, allowing movement past the sensor's mounting points. They can also be used for redundant solutions.

Technical data

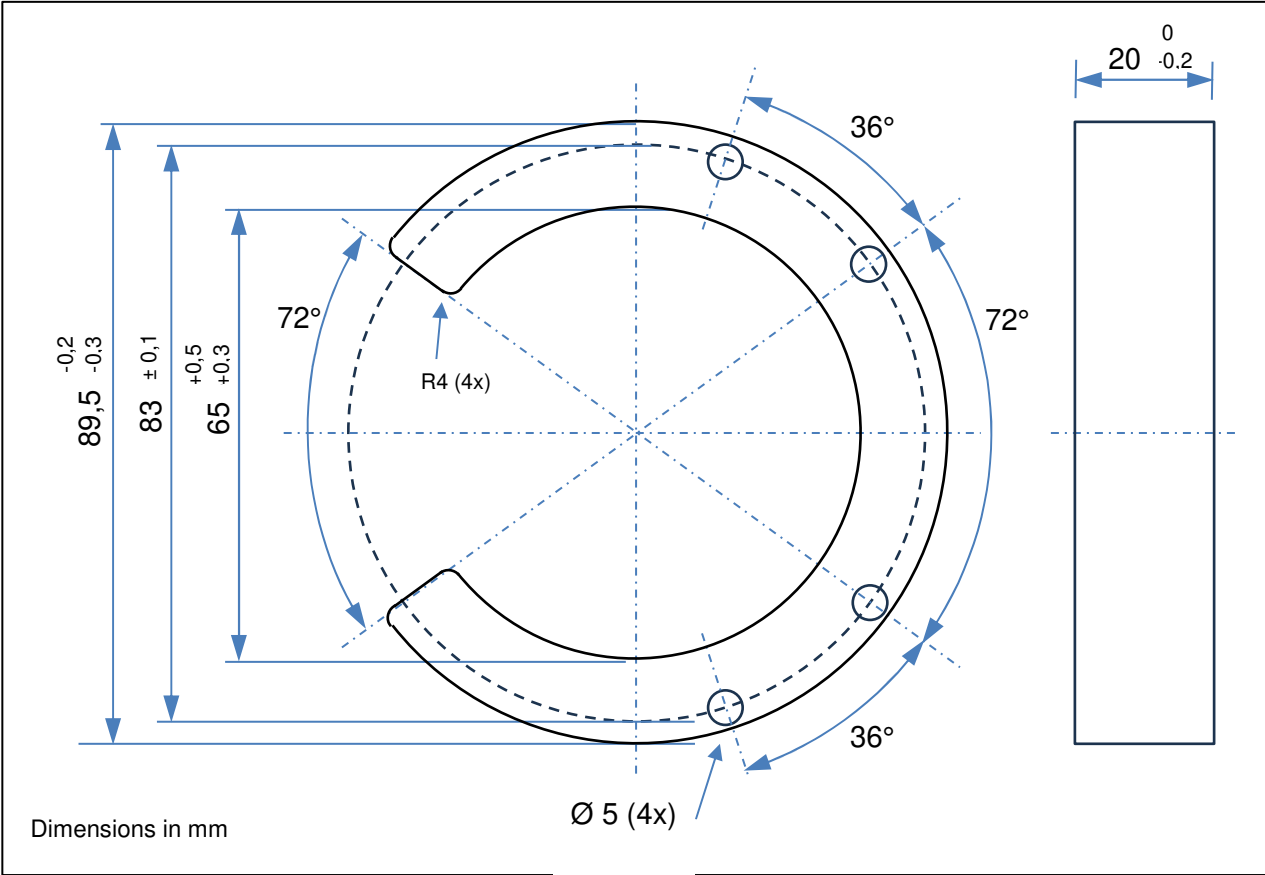
	M65	M65H	M75	M75H
Dimensions				
Inner diameter (ID)	65 mm	65 mm	75 mm	75 mm
Outer diameter (OD)	89,5 mm	89,5 mm	99,5 mm	99,5 mm
Thickness	20 mm	20 mm	21 mm	21 mm
Algemeen				
Design	Closed	72° cut out	Closed	72° cut out
Number of magnets	10	8	10	8
Material ring	Stainless steel 316L (1.4404)			
Casting material of magnets	Epoxy			
Temperature range	-40...80°C			
Weight	0,44 kg	0,36 kg	0,52 kg	0,42 kg
Approval	Tested and approved by Temposonics GmbH Co. KG			

Dimensions M65

Magnet M65

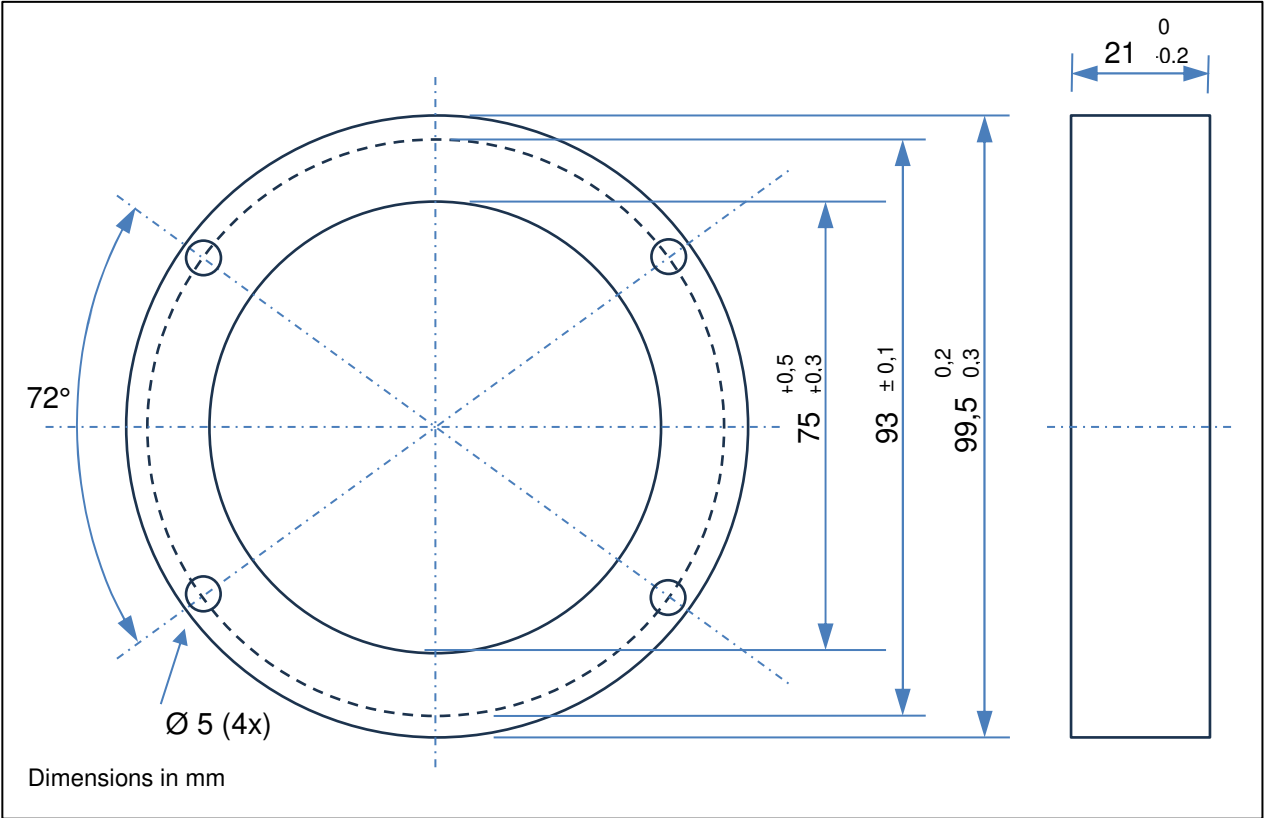


Magnet M65H

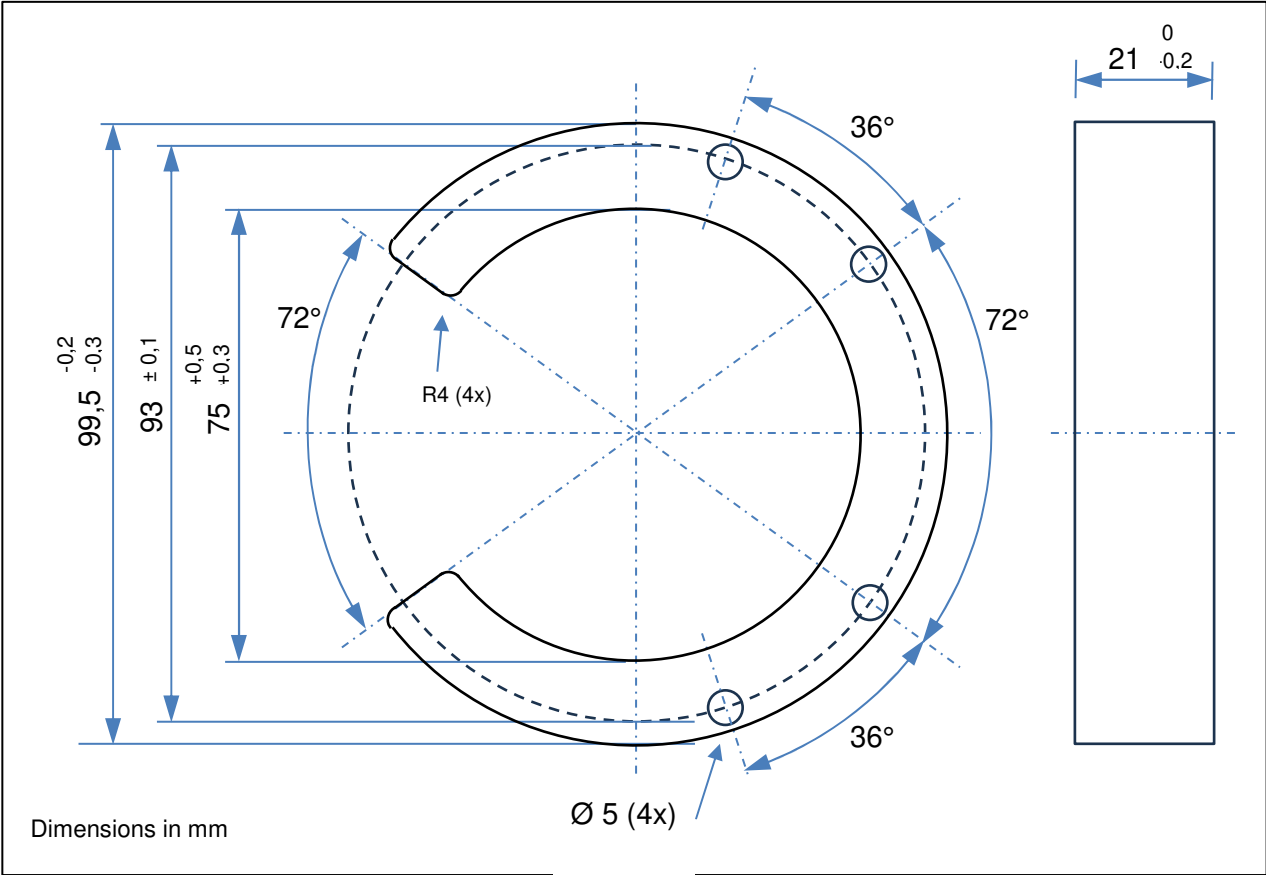


Dimensions M75

Magnet M75



Magnet M75H



Order information

Article	Description	Text description
UG-001	M65-316L	65mm inner diameter closed
UG-004	M65H-316L	65 mm inner diameter open
UG-008	M75-316L	75 mm inner diameter closed
UG-005	M75H-316L	75 mm inner diameter open



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