



THx

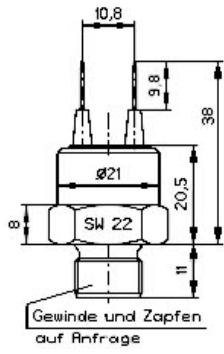
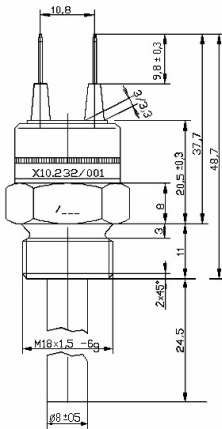
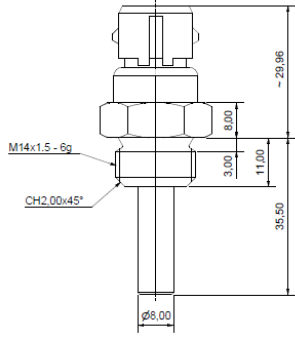


X10



X10 mit IP 65

Technical Drawing

	THx	X10	X10 mit IP 65
	 <p>Technical drawing of the THx thermostat housing. Dimensions include a top diameter of 10.8, a height of 9.8, a total height of 38, a middle diameter of $\varnothing 21$, a length of 20.5, and a bottom diameter of 11. A note indicates 'Gewinde und Zapfen auf Anfrage' (threads and pins on request).</p>	 <p>Technical drawing of the X10 thermostat housing. Dimensions include a top diameter of 10.8, a height of 9.8, a total height of 48.7, a middle diameter of 20.5, a length of 3, a bottom diameter of 11, and a bottom diameter of $\varnothing 8 \pm 0.05$. A note indicates 'X10.23P/001'.</p>	 <p>Technical drawing of the X10 mit IP 65 thermostat housing. Dimensions include a total height of ~29.98, a middle diameter of 11.00, a length of 3.00, and a bottom diameter of $\varnothing 8.00$. A note indicates 'M14x1.5 - 6g' and 'CH2.00x45°'.</p>
Wrench Size	SW 22 (SW 27)	SW 22 (SW 27)	SW 22
Thread	M10x1.0 M14x1.5 M18x1.5 (M22x1.5)	M14x1.5 M18x1.5 ½"-NPTF (M22x1.5)	M14x1.5 M18x1.5

Other housings and design available upon request. Minimum order 1,000 pieces.

Application

Automotive thermostat designed to monitor temperatures in extreme engine conditions.

Operation

Opens or closes an electrical contact when response temperature is reached. Opens or closes automatically at the reset temperature.

Technical Data

Automotive Thermostat

Type	THx/X10	THx/X10 mit IP 65
Contact = x	O = Öffner/Normally Closed S = Schließer/Normally Open	Öffner/Normally Closed Schließer/Normally Open
Reset Function	automatic	
Housing	brass	
Thread	M 10 x 1,0 M 14 x 1,5 M 18 x 1,5 M 22 x 1,5 ½"-NPTF	M 14 x 1,5 M 18 x 1,5
	other sizes upon request	
Wrench Size	22 mm 27 mm other sizes upon request	
Temperature Range	+50 °C to +150 °C	+20 °C to +130 °C
Tolerance Range	± 5 K to ± 10 K ± 3 K and other values upon request	± 3/5/10 K
Standard Temperature Difference	up to 40 K below the minimum temperature limit 30°C other values upon request	
Minimum Temperature Change Rate	0.5 K/min	
Ambient Temperature Range	-20 °C to +140°C	
Bolt Length	without (THx) per client request (X10)	with or without per client request
Country of Origin	Germany	Brazil
Housing Protection Grade	IP54	IP65

Electrical Characteristics

Type	THx/X10	THx/X10 with IP 65
Switching Voltage	up to 50 V AC/DC	6 to 48 V DC
Switch Cycles	up to 30.000	
Switching Capacity	max. 120 W	100 to max. 200 W
min./max. Switching Current	50 mA / 16 A other values upon request	100 mA / 8 A
Contact Resistance	< 25 mΩ other values upon request	
Frequency	500 V _{eff} , 50 Hz	
Housing Conductivity	PTI ≥ 250 V	

THx / X10 and THX / X10 with IP65 offer different switching capacities and protective housings. The automotive thermostat type THx / X10 with IP65 is an ideal choice for comprehensive protection against corrosion and water / elemental damage. Other versions offer limited protection against the ingress of dust and water (IP54).

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