

# MECHANICAL HYGROSTAT, CHANGE-OVER CONTACT

The KSMH is designed to control the relative air humidity inside of enclosures. When connected to an enclosure heater, (de-humidifier), it will turn the heater on at the set humidity level in order to raise the dew point. This helps prevent damage and malfunction of electronic components caused by condensation and corrosion.<sup>1)</sup> The KSMH can also be used to control cooling fans, warning lights or other devices.

## STANDARD FEATURES

Adjustable relative humidity range  
High switching capacity  
DIN rail mountable

Find additional information on this model at [kooltronic.com](http://kooltronic.com), or use the Technical Documents QR code below.

Technical  
Documents



## TECHNICAL DATA

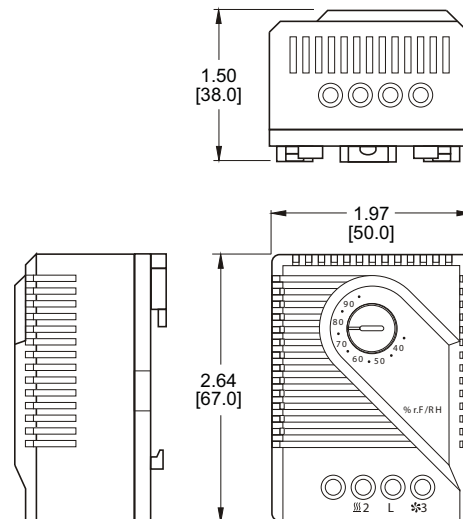
Model Number:	KSMH
Adjustment range:	35 - 95% ( $\pm 3.0\%$ ) relative humidity
Switching difference (hysteresis):	Approx. 4% RH @ 50% relative humidity
Permissible air velocity:	50 ft/sec (15 m/s)
Maximum switching voltage:	250 VAC (NOTE: 250 V should only be switched in a non-condensing environment!)
Contact type:	Change-over contact
Contact resistance:	$<10\text{m}\Omega$
Service life:	50,000 cycles
Minimum switching capacity:	100mA @ AC/DC 20 V
Maximum switching capacity:	5A @ AC 230 V (resistive load) 0.2A @ AC 230 V (inductive load at $\cos \varphi = 0.8$ ) DC 20W
EMI/EMC compliance:	EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Connection:	3-pole terminal, 3 x AWG 14 max. (2.5 mm <sup>2</sup> )
Mounting:	Clip for 35 mm DIN rail (EN 50022)
Housing:	Plastic, UL94V-0
Weight:	2 oz. (60 g)
Operating temperature:	32 to 140°F (0 to 60°C)
Storage temperature:	-4 °F to 176 °F (-20 to 80°C)
Protection type:	IP 20
Application examples:	Electrical & Electronic enclosures Telecommunication systems Display panels Ticket dispensers Automatic teller machines (ATM's) Access & Parking control systems

## HOW TO ORDER

Specify model number.

## DRAWINGS

Dimensions, inches [mm], are for reference only and are subject to change.



<sup>1)</sup> The critical relative humidity for most components is 65%. Above 65% RH, condensation can cause malfunction of electronic equipment. Long-term, this can lead to corrosion and permanent damage of electronic components and systems.

Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.

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