

# TEMPERATURE

## TEMPERATURE SWITCH TK SERIES



### DESCRIPTION

The **IFM Efector TK Series Temperature Switch** is a versatile temperature switch that is configured for set point and reset through two radial setting rings. These temperature switches are ideal for maximum and minimum temperature indication applications. The switch points can be set up out of the box without being installed and applied to the system. Once set, they can be locked by a third rotating ring. The **TK Series** is available with either set point and reset adjustment or two set points and a fixed reset. Each **TK Series Temperature Switch** should be ordered with a separate cable assembly available in 6' (1.8 m), 15' (4.6 m), 30 ft (9.1 m) lengths.

### FEATURES

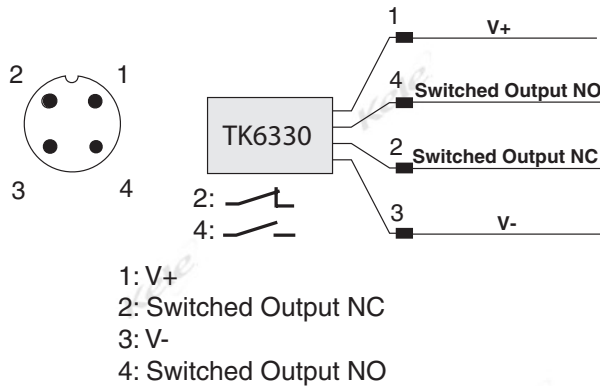
- *Two, easy to use dual setup dials*
- *Solid state electronics*
- *Two PNP switching outputs*
- *No software needed*
- *Local LEDs for power and switching status*



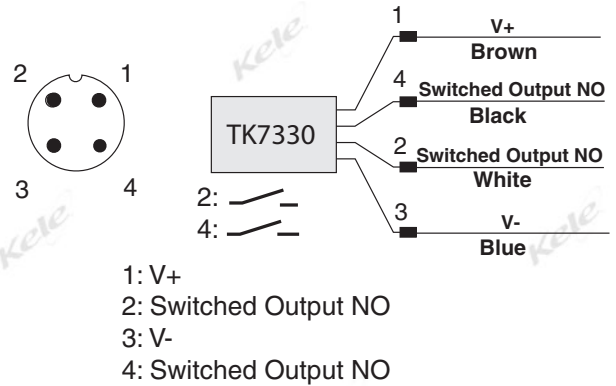
TK6330



### WIRING - TK6330



### WIRING - TK7330



TEMPERATURE

20

### SPECIFICATIONS

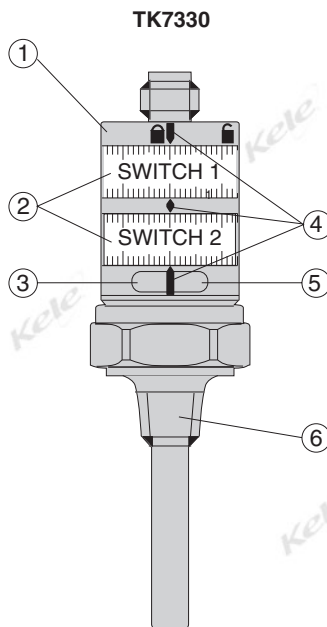
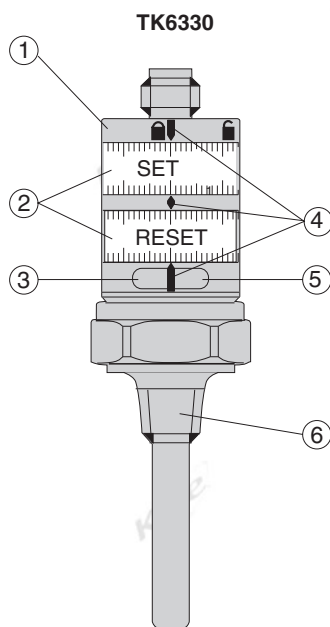
<b>Supply Voltage</b>	9.6 to 32 VDC, 530 mA	<b>Visual Indication</b>	Power Green LED Switching status Yellow LED (Energized = Switched)
<b>Media Temperature Range</b>	-13° to 284°F (-25° to 140°C)	<b>Shock</b>	50g (11ms)
<b>Setpoint Range</b>		<b>Vibration Resistance</b>	20g (10 to 2000 Hz)
<b>TK6330</b>	3° to 284°F (-16° to 140°C)	<b>Operating Temperature</b>	-13° to 158°F (-25° to 70°C)
<b>TK7330</b>	-4° to 284°F (-20° to 140°C)	<b>Enclosure</b>	IP67; Material: PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L
<b>Reset</b>		<b>Process Connection</b>	1/4" NPT
<b>TK6330</b>	Adjustable: -4° to 277°F (-20° to 136°C)	<b>Wiring Terminations</b>	4 pin M12 Electrical connector (order separately)
<b>TK7330</b>	Fixed: 9°F (5°C)	<b>Dimensions</b>	1.06" diameter x 4.15"H (2.7 x 10.5 cm)
<b>Contact Rating</b>	0.5A DC PNP (sourcing)	<b>Approvals</b>	UL File E179189, CE
<b>Contact Type</b>		<b>Weight</b>	0.25 lb (0.11 Kg)
<b>TK6330</b>	1 NO, 1 NC, open collector transistor	<b>Warranty</b>	2 years
<b>TK7330</b>	2 NO, open collector transistor		
<b>Accuracy</b>	±5.4°F (3.0°C)		
<b>Repeatability</b>	±0.18°F (0.1°C)		
<b>Wetted Parts</b>	Stainless 316L/1.4404		



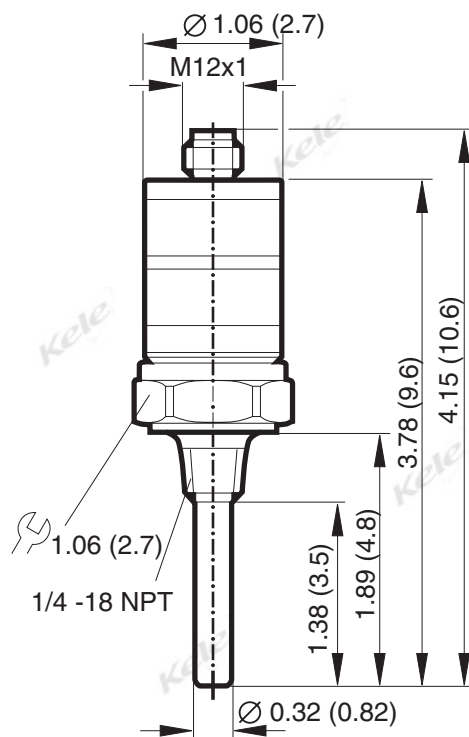
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### DIMENSIONS



in  
(cm)



- 1: Locking ring
  - 2: Setting rings (manually adjustable after unlocking)
  - 3: LED green: supply voltage O.K.
  - 4: Setting marks
  - 5: LED yellow: value [SET] reached, OUT1 = ON / OUT2 = OFF
  - 6: Process connection 1/4" NPT pin 4 = OUT1 / pin 2 = OUT2
- Minimum distance between [SET] and [RESET] = 5.4°F (TK6330)
  - To obtain the setting accuracy: Set both rings to the minimum value, then set the requested values.

### ORDERING INFORMATION

MODEL	DESCRIPTION
TK6330	TK Series temperature switch, adjustable reset, 3° to 284°F (-16° to 140°C), 1 NO 1 NC contacts
TK7330	TK Series temperature switch, fixed reset, 9°F (5°C) -4° to 284°F (-20° to 140°C), 2 NO contacts

\*Connector required, see below

	RELATED PRODUCTS	PAGE
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	995
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	994
E30094	VK/TK Series protective cover	
EVC001	6' (1.8 m) foot straight connector	
EVC002	15' (4.6 m) straight connector	
EVC003	30' (9.1 m) straight connector	
EVC004	6' (1.8 m) right-angled connector	
EVC005	15' (4.6 m) right-angled connector	
EVC006	30' (9.1 m) right-angled connector	
EVC007	6' (1.8 m) right angled connector with LED indication	
EVC008	15' (4.6 m) right angled connector with LED indication	
EVC009	30' (9.1 m) right angled connector with LED indication	