


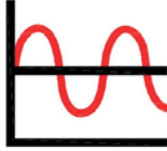

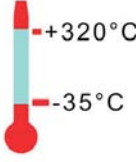
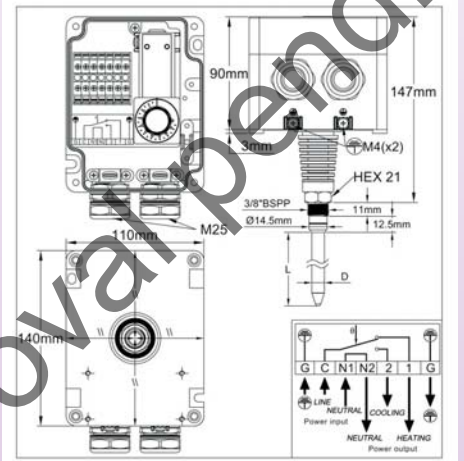




Thermostats and limiters, connection inside EX « e » aluminum housing with built-in connection block

Rod thermostat, printed knob adjustment

Electrical connection	Set point adjustment	Mounting	Action	Contact Rating 230V	T° range min and max limits	Types
Internal junction block	Printed knob	Rod	Control	SPDT 15A	-35+320°C	Y96KAA Y96KBA
					 +320°C -35°C	



General rules for installation:

Important Note: These thermostats are considered to be material by the standards of equipment for potentially explosive atmospheres. They are intended to monitor or control the temperatures in hazardous areas. In gas explosive atmospheres, they can be used in zones 1 or 2 in the presence of gas, smoke and fog, class IIC, surface temperature T6, and ambient temperature on the enclosure from -50 to +60°C, or from -50 to +70°C.

In dust explosive atmospheres, they can be used in zones 21 and 22

These thermostats have explosion-proof microswitch type II2G, Ex IIIC according to IEC/EN 60079-1, embedded in an increased safety aluminum enclosure according to IEC/EN 60079-7.

Ex identification :

Gas explosive atmospheres:

II 2G Ex d e IIC T6

Dust explosive atmospheres:

Ex 2D Ex tb IIIC T85°C Db

Approvals: These products are ATEX and IECEx certified

Atex: pending; IECEx: pending

Housing: aluminum, 140 x 110 x 90mm (Dimensions without cable gland), with epoxy painting, RAL7032 (thickness less than 0.2mm)

Temperature sensing element: oil filled stainless steel rod, liquid expansion principle. Standard rod lengths are 230 and 300mm, but on request, it is possible to make 450mm and 600mm

Electrical connection: On built-in junction block, 4mm², screw terminals. 7 terminals for neutral, ground and line, including jumpers between input and output for neutral and ground. Large space provided for connection.

A built in junction block, type Push-In® is available on request.

Cable glands: two M25 metal cable glands can be used for cable from 9 to 13mm or 13 to 16mm. There is a cable locking saddle inside the enclosure, at each cable gland input. Other cable glands for round cable, flat cable or independent conductors are available on request

Ground terminals: Two M4 grounding terminals with saddle are located on the outside of enclosure. 2 grounding terminals are located on the junction block.

Adjustment: With knob printed in °C (°F on request). Adjustment is possible only after removing the cover, and when the electrical supply is powered off.

Mounting: By the 3/8 thread or by the dia. 14.5mm bushing located at the rod end under the enclosure. These devices allow the use of fittings, bracket, flanges, pockets and other accessories described in the last section of this catalogue

Contacts: SPDT (snap action contact)

Electrical rating: Suitable for power control, remote control of relay coils or PLCs circuits, and direct power switching.

These devices use silver contacts or silver alloy contacts. Due to the possible oxidation of the contacts in time, we do not recommend the use of AC or DC low-voltage circuits (24V or less) if the switched intensity is less than 100mA, or the switched power less than 800mW. Contact us for those applications that require gold-plated contacts. The electrical ratings given are normalized resistive circuit values.

Mechanical life: > 500,000 cycles

Voltage	Max rating (A)	Switch Electrical life (cycles)
400VAC (KA type only)	10	500000
250VAC	15	500000
125VAC	15	500000
0-15VDC	15	500000
15-30VDC	2	500000

Main references

Standard differential	Reduced differential	Standard differential	Reduced differential	Temperature range (°C)	KA, standard differential*(°C)	KB, reduced differential*(°C)	Max temperature on rod (°C)
Y96KAA-2502522VK	Y96KAA-2502522VK	Y96KAA-2502523VK	Y96KBA-2502522VK	-25+25**	3+/-2	2+/-1	50
Y96KAA-1001522VK	Y96KAA-1001522VK	Y96KAA-1001523VK	Y96KBA-1001522VK	-10+15**	3+/-2	2+/-1	50
Y96KAA00005022VK	Y96KAA00005022VK	Y96KAA00005023VK	Y96KBA00005022VK	0-50**	3+/-2	2+/-1	60
Y96KAA00007052VK	Y96KAA00007052VK	Y96KAA00007053VK	Y96KBA00007052VK	0-70	5+/-3	3+/-2	160
Y96KAA02009052VK	Y96KAA02009052VK	Y96KAA02009053VK	Y96KBA02009053VK	20-90***	5+/-3	3+/-2	160
Y96KAA01015052VK	Y96KAA01015052VK	Y96KAA01015053VK	Y96KBA01015053VK	10-150***	5+/-3	3+/-2	160
Y96KAA08020002VK	Y96KAA08020002VK	Y96KAA08020003VK	Y96KBA08020003VK	80-200***	10+/-4	6+/-4	320
Y96KAA05030002VK	Y96KAA05030002VK	Y96KAA05030003VK	Y96KBA05030003VK	50-300***	10+/-4	6+/-4	320

* Reduced differential types are not suitable for 400VAC applications.

** The filling liquid of these thermostatic assemblies has a freezing temperature below -40 °C. However it is important to protect the bulb and /or the capillary against the risk of freezing if a temperature below -35 °C can be reached in operation. Acceptable storage temperature: -50 °C. For these types, maximum ambient temperature acceptable on enclosure : 60°C.

*** In these applications, the enclosure surface temperature class T6 may be reduced to T5. It is important that the process temperature is not transmitted to the housing and that it does not exceed its maximum allowable temperature.

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

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