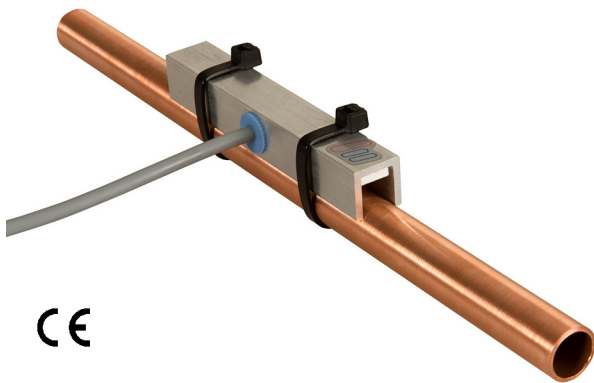


По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Санкт-Петербург (812)309-46-40
Астана (7172)727-132	Красноярск (391)204-63-61	Саратов (845)249-38-78
Астрахань (8512)99-46-04	Курск (4712)77-13-04	Севастополь (8692)22-31-93
Барнаул (3852)73-04-60	Липецк (4742)52-20-81	Симферополь (3652)67-13-56
Белгород (4722)40-23-64	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Брянск (4832)59-03-52	Москва (495)268-04-70	Сочи (862)225-72-31
Владивосток (423)249-28-31	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Волгоград (844)278-03-48	Набережные Челны (8552)20-53-41	Сургут (3462)77-98-35
Вологда (8172)26-41-59	Нижний Новгород (831)429-08-12	Тверь (4822)63-31-35
Воронеж (473)204-51-73	Новокузнецк (3843)20-46-81	Томск (3822)98-41-53
Екатеринбург (343)384-55-89	Новосибирск (383)227-86-73	Тула (4872)74-02-29
Иваново (4932)77-34-06	Омск (3812)21-46-40	Тюмень (3452)66-21-18
Ижевск (3412)26-03-58	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Казань (843)206-01-48	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калининград (4012)72-03-81	Пенза (8412)22-31-16	Хабаровск (4212)92-98-04
Калуга (4842)92-23-67	Пермь (342)205-81-47	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Ростов-на-Дону (863)308-18-15	Череповец (8202)49-02-64
Киров (8332)68-02-04	Рязань (4912)46-61-64	Ярославль (4852)69-52-93
	Самара (846)206-03-16	

Единый адрес: gct@nt-rt.ru **Веб-сайт:** www.galltec.nt-rt.ru

Датчики для контроля конденсации HSF GALLTEC+MELA. Техническое описание



CE

Technical data

Adjusting the sensor unit at 90 %rh $\pm 2\%$ rh
hysteresis 3%rh
Voltage supply 15...30VDC / 24VAC $\pm 10\%$
Degree of protection IP 65
power consumption
..... „Relay off“ approx. 1 mA / „Relay on“ approx. 14 mA
Weight approx. 85g
Contacting cable connection 1.5 m¹⁾
Range of operating temperature -20...+70°C
EMC according to DIN EN 61326-1
DIN EN 61326-2
¹⁾ Further cable lengths on request.

Type HSF2.KW.F300.F00.1K0

Switching output potential-free changeover contact
voltage max. 48V
switching current max. 0.5A
Switching power max. 10W
Analogue output 0...10V
Output range 50...100%rh
Accuracy (MR 50...95% rh, at 23°C) $\pm 2\%$ rh

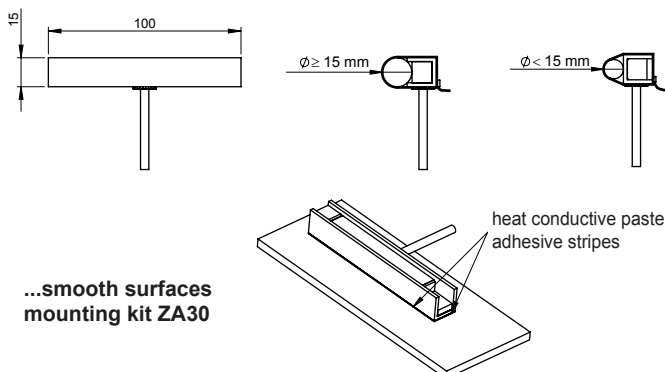
Type HSFS.KW.0000.F00.1K0

Switching output potential-free changeover contact
voltage max. 48V
switching current max. 0.5A
Switching power max. 10W

Assembly drawing

mounted on:

...pipes



Product info sheet

Humidity sensors for monitoring condensation

Analogue- and switching output (changeover contact)

Type HSF2.KW.F300.F00.1K0

Switching output (changeover contact)

Type HSFS.KW.0000.00.1K0

Description

Sensors for monitoring condensation are suitable for installation on cooling water pipes or cooled surfaces and monitor whether the temperature of the direct surroundings falls below the dew point.

They measure the relative humidity directly on the surface of the cool section of the system and can be used to:

- influence the cooling capacity
- switch cooling systems on and off
- signal when the temperature falls below the dew point

This means, for example, that even with critical climatic values, cooling ceilings can be operated effectively without condensation forming.

User information

The HSF sensors should be fitted onto the bare metal pipe at the position which is at greatest risk of condensation formation and secured using cable ties (not included in the standard delivery). It is also possible to fit the sensors onto a clean surface which is free from grease using the ZA30 installation kit, available as an accessory. In both cases, the lowest possible heat transfer resistance should be observed, as this is essential to ensure that the appliance works correctly. Installation positions in which water may collect in the sensor should also be avoided.

Further information which should be observed when using humidity sensors with a capacitive sensor element can be found in the sensor elements application information (product info no. A1) or by asking the manufacturer.

PLEASE NOTE! The operating voltage is conducted internally via a bridge rectifier, meaning that at the HSF2 sensors, the minus pole of the supply voltage does not correspond to the reference potential of the analogue output.

Connection assignment

	Wire colour	Connection
Supply	brown	- (~)
	green	+ (~)
Analogue output (only for HSF2...)	white	0...10 V
	yellow	GND
Relay output	blue	make contact
	pink	break contact
	grey	COMMON

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Санкт-Петербург (812)309-46-40
Астана (7172)727-132	Красноярск (391)204-63-61	Саратов (845)249-38-78
Астрахань (8512)99-46-04	Курск (4712)77-13-04	Севастополь (8692)22-31-93
Барнаул (3852)73-04-60	Липецк (4742)52-20-81	Симферополь (3652)67-13-56
Белгород (4722)40-23-64	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Брянск (4832)59-03-52	Москва (495)268-04-70	Сочи (862)225-72-31
Владивосток (423)249-28-31	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Волгоград (844)278-03-48	Набережные Челны (8552)20-53-41	Сургут (3462)77-98-35
Вологда (8172)26-41-59	Нижний Новгород (831)429-08-12	Тверь (4822)63-31-35
Воронеж (473)204-51-73	Новокузнецк (3843)20-46-81	Томск (3822)98-41-53
Екатеринбург (343)384-55-89	Новосибирск (383)227-86-73	Тула (4872)74-02-29
Иваново (4932)77-34-06	Омск (3812)21-46-40	Тюмень (3452)66-21-18
Ижевск (3412)26-03-58	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Казань (843)206-01-48	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калининград (4012)72-03-81	Пенза (8412)22-31-16	Хабаровск (4212)92-98-04
Калуга (4842)92-23-67	Пермь (342)205-81-47	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Ростов-на-Дону (863)308-18-15	Череповец (8202)49-02-64
Киров (8332)68-02-04	Рязань (4912)46-61-64	Ярославль (4852)69-52-93
	Самара (846)206-03-16	

Единый адрес: gct@nt-rt.ru **Веб-сайт:** www.galltec.nt-rt.ru