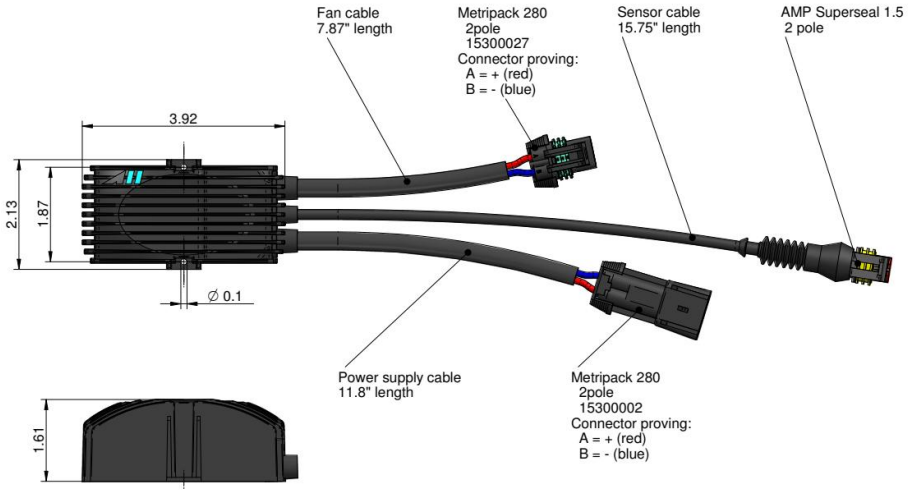
Temperature Control
12V/24V DC

The asa fan control system requires a control unit (ILLZTC12-2KU00 or ILLZTC24-2KU00) and a temperature sensor (ILLZTT5069KU00) or temperature switch (IP69k switch types / ILLZTH…69KU00). In combination with the temperature sensor the fan speed varies according to the actual oil temperature at the sensor. This reduces the noise level of the cooler and increases the durability of the fan motor, because it is not running on the maximum speed all the time. The startup temperature of this system is 111°F and the maximum rotation of the fan is applied when the oil temperature reaches 131°F. Moreover the control unit (ILLZTC12-2KU00 or ILLZTC24-2KU00) can also be connected with our temperature switches (IP69K switch type). This is a simple on/off mode, according to the switch temperature. The control unit benefit is the soft start curve, extending the life time of the fan motor.



- energy saving
- reduced noise level
- EMC compatibility
- IP 69K protection to sensor/switch

Technical Data

order number	description	max. power fan motor	max. current fan	protection	weight	supply
		[W]	[A]		[lbs]	DC
ILLZTC12-2KU00	temperature control 12V DC	310	23 (12V DC)	IP 67	0,55	12V (9V – 15V)
ILLZTC24-2KU00	temperature control 24V DC	340	12 (24V DC)	IP 67	0,55	24V (18V – 32V)

Characteristics

material:	polyamide
mounting instructions	any mounting position

Measurement input

temperature sensor	ILLZTT5069KU00 (control range 111-131°F)
temperature switch	ILLZTH5069KU00 (set point 122°F, soft start)
	ILLZTH6069KU00 (set point 140°F, soft start)
	ILLZTH9069KU00 (set point 194°F, soft start)

Ambient Conditions

ambient temperature range	-4°F to +185°F
storage temperature range	-40°F to +230°F

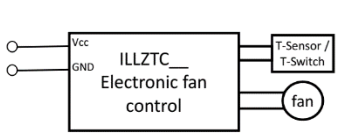
Combinations

12V and 24V DC coolers	check max. current of cooler

Delivery Content

fan control ILLZTC__-3, cable PVC sleeve EC020503200M0
drilling screws (2x), cable clips (3x)

Installation scheme







Please note:
The maximum start current is approximately 10% higher than the nominal current of the motor. Observe the maximum allowable supply of the fan motor. The allowed voltage range of the fan might differ from the allowed voltage range of the temperature control. In case of inverse polarity of the supply, the control unit is deactivated. After changing the polarity, the control is ready for use again. If the supply voltage exceeds 16,5V (ILLZTC12-2KU00) and 32V (ILLZTC24-2KU00) respectively, the control is switched off to protect the fan. After supply voltage is reducing below 12V or 24V, respectively, the control is activated again, automatically. The closed current is 5mA (ILLZTC12-2KU00) and 4mA (ILLZTC24-2KU00), respectively. The recommended fuse is fast acting 25A (ILLZTC12-2KU00) and 16A (ILLZTC24-2KU00), respectively. Due to the high currents (21A at the ILLZTC12-2KU00), the dimension of the electrical wires must be appropriate and in case of a luster terminal it has to be tightened properly.

This data sheet and the corresponding technical drawings serve solely as a general guideline and a technical overview of our products. Please contact us for additional information. We always try to keep the technical data up to date. However, due to constant development, no guarantee can be given for the correctness of the information (or printing errors). This applies to general properties such as dimensions, colors and weight. Any cooling performances and general technical values indicated in this catalogue are measured at a test benches according to asa testing procedures or calculated based on such tests and may therefore deviate from values obtained by test procedures from other manufacturers. The performance can vary by around +/- 15%. All information and calculation values are provided to the best of our knowledge, they do not represent intrinsic product properties and it is strongly recommended that the product is tested under the actual operating conditions. All drawings shown here are to be understood as schematic representations. For exact dimensions and the applicable tolerances, please ask for the corresponding scale drawings. Any form of liability is excluded for the information included in this datasheet. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet and the corresponding scale drawings are not a substitute for the assembly, installation and operating instructions.