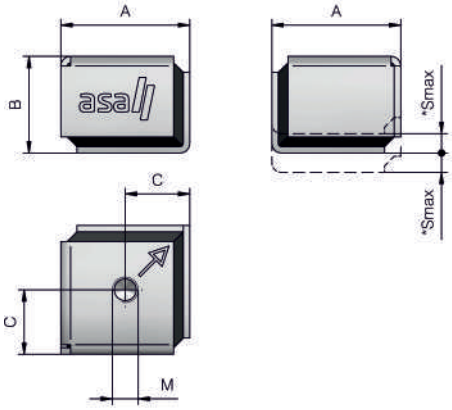
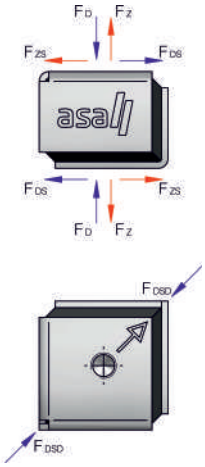
Accessories
rubber vibration absorber, foot mounting brackets

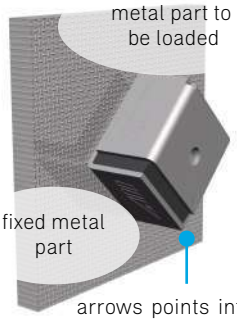
Rubber Vibration Absorber

The asa vibration absorbers are rubber metal connected parts to absorb impact loads on components to protect them and to extend the life time of the system. The patented solution is especially designed for highest shear loads. An assembly system can be checked by arrows on the metal parts to help to optimize and raise the load capability of the vibration absorber.



*Smax.....maximum working distance





- ✓ Zinc coated metal parts
- ✓ Elastomer: natural rubber
- ✓ Working temp. -30°C to +80°C

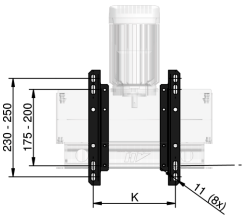
Dimensions

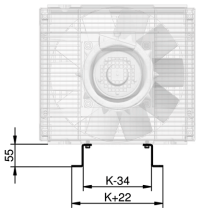
order number	description	A	B	C	M	Smax	weight
		[mm]	[mm]	[mm]		[mm]	[kg]
MDGQ403008IIKI00	40x40x30 M8	40	30	20	M8 x 10	± 3	0,127
MDGQ504510IIKI00	50x50x45 M10	50	45	25	M10 x 12	± 6	0,280
MDGQ755512IIKI00	75x75x55 M12	75	55	37,5	M12 x 15	± 8	0,659
MDGQ1007516IIKI00	100x100x75 M16	100	75	50	M16 x 16,5	± 9	1,920

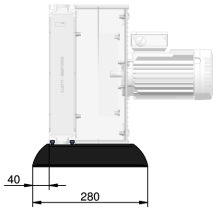
Contact us for full data sheet with load capacities, maximum static loads and spring rates.

Foot Mounting

The foot mounting option is available on all Low Line coolers.
1 set consists of the 2 feet brackets with mounting material.







order number	description	fits on cooler type		
		TT 03	TT 06	TT 08
ILLEFUSSTTK06KI00	mounting feet set TT 03, 06, 08	●	●	●

-... not available ●... optional available

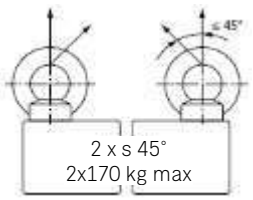
Lifting Kit (suits all standard coolers)

For safe and simple handling during installation and relocation
only used for installation and maintenance.

order number	description	delivery content
ILLZLKI00	Lifting kit standard coolers	one kit contains 2 ring bolts, 4 nylon washers and 2 screw

using bolt, only

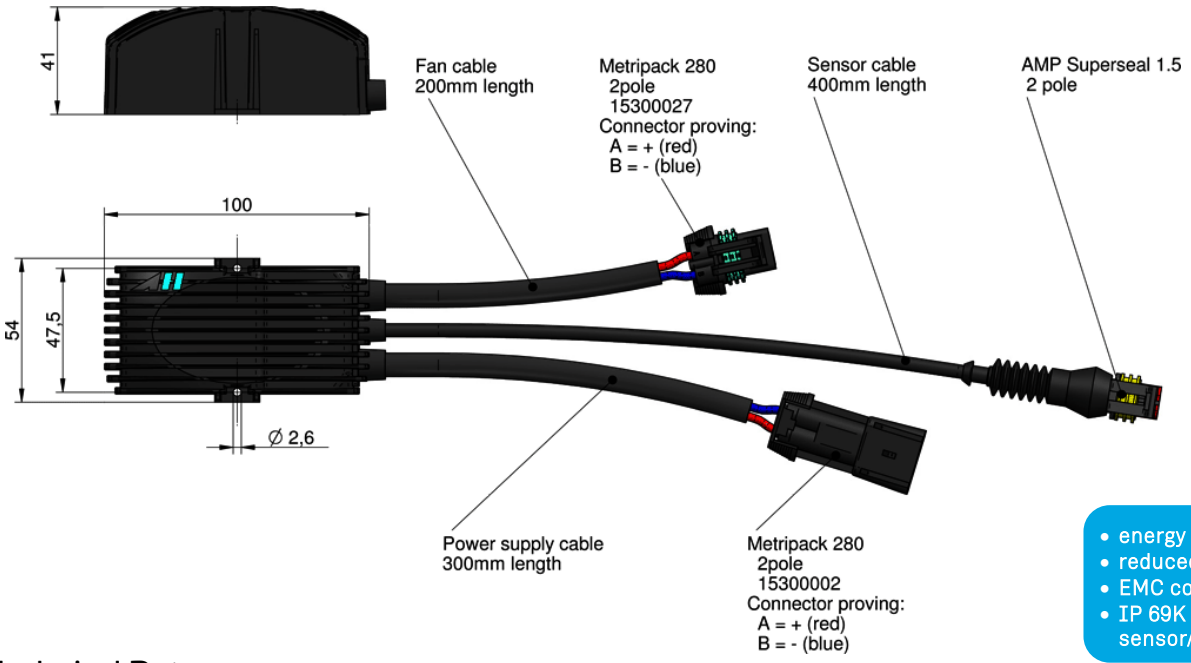
using screw nut



load capacity
/ using bolt

Accessories
temperature control

This system consists of a temperature sensor (ILLZTT5069KI00) and a control unit (24V available). The fan speed varies according to the actual oil temperature on the sensor. This reduces the noise level of the cooler system and increases the durability of the fan motor, because it is not running on the maximum speed all the time. The start up temperature of this system is 44°C and the maximum rotation of the fan is applied when the oil temperature reaches 55°C. The electro-magnetic compatibility (EMC) is tested according to CE (89/336/EC) and E (95/54/EC). Moreover the control unit 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]		[kg]	DC
ILLZTC24-2KI00	temperature control 24V DC	340	12 (24V DC)	IP 67	0,25	24V (18V – 32V)

Characteristics

material:	polyamide
mounting instructions	any mounting position

Measurement input

temperature sensor	ILLZTT5069KI00 (control range 44-55°C)
temperature switch	ILLZTH5069KI00 (set point 50°C, soft start)
	ILLZTH6065KI00 (set point 60°C, soft start)

Ambient Conditions

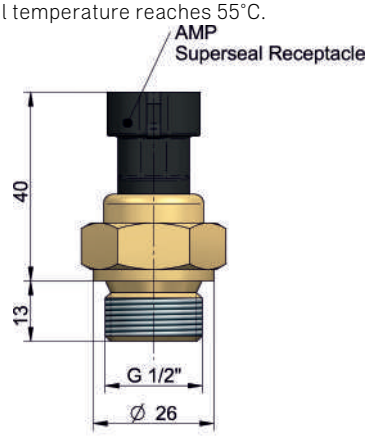
ambient temperature range	-20°C to +85°C
storage temperature range	-60°C to +110°C

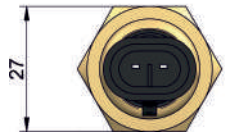
Please note:
The maximum start current is approximately 10% higher than the nominal current of the motor. Observe the maximum allowable supply of the fan motor. The allowed voltage range of the fan might differ from the allowed voltage range of the temperature control. In case of inverse polarity of 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 (ILLZTC12-2KI00) and 32V (ILLZTC24-2KI00) 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 (ILLZTC12-2KI00) and 4mA (ILLZTC24-2KI00), respectively. The recommended fuse is fast acting 25A (ILLZTC12-2KI00) and 16A (ILLZTC24-2KI00), respectively. Due to the high currents (21A at the ILLZTC12-2KI00), the dimension of the electrical wires must be appropriate and in case of a luster terminal it has to be tightened properly.

Accessories

temperature sensor

The temperature sensor requires a control unit for the control system which is available in 12V (ILLZTC12-2KI00) and 24V (ILLZTC24-2KI00). The fan speed varies according to the actual oil temperature on the sensor. This reduces the noise level of the cooler system and increases the durability of the fan motor, because it is not running on the maximum speed all the time. The start up temperature of this system is 44°C and the maximum rotation of the fan is applied when the oil temperature reaches 55°C.





Temperature Control

- NTC sensing
- IP 69K protection
- compact design

Technical Data

rder number	description	connection	protection	weight
				[kg]
ILLZTT5069KI00	temperature sensor BSP ½“	AMP superseal 1.5	IP 69K	0,09

Characteristics

screw part material	brass
mounting instructions	any mounting position
maximum tightening torque	50Nm

Measurement Output

connection	AMP superseal 1.5

Ambient Conditions

oil temperature range	-20°C to +100°C
ambient temperature range	-20°C to +85°C
storage temperature range	-60°C to 110°C

Required Accessories

temperature control unit 24V DC	ILLZTC24-2KI00

Combinations

24V DC coolers	LL 04, LL 06, LL08 / TT 07 - 25 rail / ASA 0177 - 0367

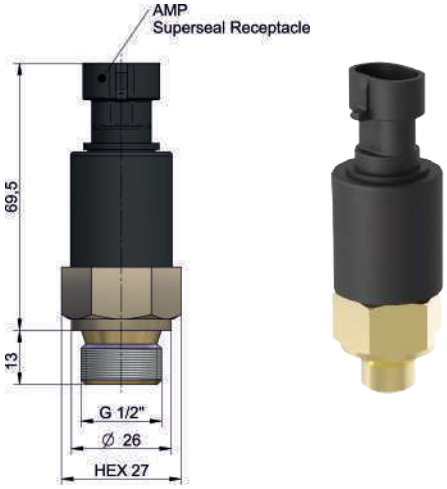
Accessories
temperature switches

According to the cooler type and size, our temperature switches fit on all coolers and connectors with BSP ½“ threads. Please contact us for the compatibility of the products. IP69K switch types (ILLZTH5069KI00, ILLZTH6069KI00 and ILLZTH9069KI00) work in combination with our temperature control units ILLZTC12-2KI00 (12V) and also with ILLZTC24-2KI00 (24V). 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.

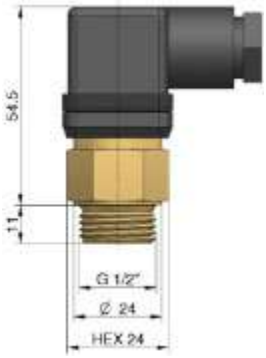
On request we offer various other bi-metal temperature switches with different temperature settings, protection classes and connection makes.

Temperature Control

Protection IP69k



Protection IP65



Technical Data

order number	description	connection	protection	switch temperature	difference	weight
				[°C]	[°C]	[kg]
ILLZTH4765KI00	temperature switch 50°C	ISO 4400	IP 65	50 ± 5	10 ± 5	0,09
ILLZTH6065KI00	temperature switch 60°C	ISO 4400	IP 65	60 ± 5	10 ± 5	0,09

Characteristics

screw part material	brass
mounting	any position
max. tightening torque	40Nm
number of cycles	100.000
counter connector	included

Combinations

all coolers and connectors with BSP ½“ threads

Measurement Output

contact	N.O. (normal open)
minimum current	200mA
maximum current	12V AC: 10A
	24V AC: 10A
	120V AC: 12A
	230V AC: 10A
Use power relay for switching!	

Ambient Conditions

oil temperature range	-20°C to +100°C
ambient temperature range	-20°C to +80°C
storage temperature range	-60°C to 110°C