Safety Temperature Monitor and Limiter

Series 8146/5





- Disconnection in the event that a user-defined temperature is exceeded or fallen below, switching capacity up to 25 A
- Permanent disconnection in the event of leak in the liquid-filled measuring system
- Standardised versions available in Series 8146 Ex e enclosure.
 Customised solutions available on request.

WebCode 8146K



R. STAHL safety temperature monitor and limiters perform various tasks: They disconnect the system after an adjustable limit value is exceeded, whereby limiters remain disconnected, while controllers switch back on again when the permissible temperature is reached. Both switch off in the event of leak in the system. The set value can be seen from the outside through the inspection window.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table			
Product Description Cable glands and entries	Safety temperature limiter 1 x M20 Ø 4 13 mm		
Measuring range	Product Type	Art. No.	Weight kg
Safety temperature limiter: 0 to 120 °C	8146/5041-STB25A/+0+120°C	136011■	1.000
Product Description Cable glands and entries	Safety temperature monitor 1 x M20 Ø 4 13 mm		
Measuring range	Product Type	Art. No.	Weight kg
Safety temperature monitor: -20 to 50 °C	8146/5041-STW25A/-20- +50°C	136043■	1.000
Safety temperature monitor: 0 to 190 °C	8146/5041-STW25A/0- +190°C	136081 ■	1.000
Product Description Cable glands and entries	Safety temperature monitor And safety temperature limiter $2x$ M20 Ø 4 to 13 mm		
Measuring range	Product Type	Art. No.	Weight kg
Safety temperature limiter: 0 to 190 °C Safety temperature monitor: 0 to 120 °C	8146/5051-STW25A+STB25A	269562 ■	1.440

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas explosion protection	
IECEx dust explosion protection	Ex tb IIIC T80 °C Db
ATEX dust explosion protection	
Certificates	ATEX (PTB), China (NEPSI), EAC (ENDCE), IECEx (PTB), India (PESO)



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E4

Technical Data	
Electrical Data	
Rated operational voltage AC	230 V
Rated operational current	25 A (T6)
Notes	Change-over contact, specific to safety temperature monitors and limiters in acc. with EN 14597: - the power can be switched via contact path 1-2 - the contact path 1-4 is used for signalling purposes
Output	
Max. output AC load condition	1 to 2 230 V AC1 / 25 A 1 to 4 230 V AC1 / 2 A
Ambient Conditions	
Ambient temperature	-60 °C +40 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Capillary tube length	1 m
Capillary tube diameter	1.5 mm
Contacts	1 change-over contact
Components	
Cable entry material	Polyamide, black

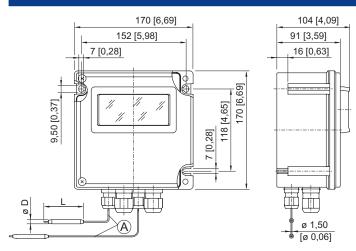
Technical Drawings – Subject to Alterations





STM = Safety temperature monitor STL = Safety temperature limiter 8146/5051-...

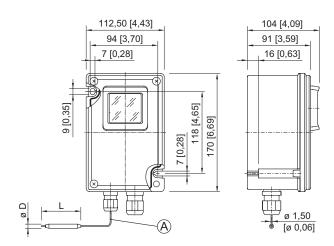
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



8146/5051-STW+STB Safety temperature monitor and limiter Combination device

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8146/5041-... Safety temperature monitor and limiter Single device