

Technical Data Sheet (TDS)

Item number 8/2020
 995011009000001
 Net weight NWT-M-OK-AK-ESH-1PT100-B2-KYF-
 79.65 g/Unit

PR-SPA-EX-NWT, Version AK
 IExU 14 ATEX 1281U
 IECEx IBE 14.0058U
 (II 2G) Ex eb IIC Gb

Description		
Type:	PR-SPA-EX-NWT	
Version:	AK	
Designation:	Slot resistance thermometer	
variant:	NWT-M-OK	
Description:	AK-ESH	
Construction:	flexible	
Sensor Data		
Number of sensors:	1	Piece
Sensor Material:	Pt	
Resistance value:	100	Ω
Sensor type:	Chip	
Mode of connection:	2 wire circuit	
Tolerance:	class B ±0.3°C at 0°C acc. DIN EN 60751	
Electrical values		
max. operating current:	80	mA
Recommended measuring current:	0.3 to 1.0	mA
max. operating voltage:	25	V DC
max. power:	2000	mW
Dielectric strength:	3.0 kV AC. 50 Hz / 1min.	
Temperature		
Measuring range min.:	-40	°C
Measuring range max.:	+180	°C
Ambient temperature min.:	-40	°C
Ambient temperature max.:	+180	°C
Sensor housing		
Material:	Kynar-Flex	
Height:	3	mm
Tolerance of height:	+0/-0.3	mm
Width:	8	mm
Tolerance of width:	+0/-0.4	mm
Length:	100	mm
Tolerance of length:	±2	mm
Kink protection description:	SCGS	
Kink protection length:	150	mm
Sealed:	yes	
Supply line		
Supply line fix connected:	yes	
Version:	single litzes	
Number of lines:	2	Piece
Number of conductor(s):	1	Piece
Material:	Cu	
Refinement:	silver plated	
Insulation:	PTFE	
AWG-Type:	AWG 20/7	
Outer diameter:	1.47	mm

Color code of conductor:	RD/WH	
Length:	5000	mm
Wire end:	tinned	
Stripped length:	15	mm
Screen		
Shield available:	no	
	PR-SPA-EX-NWT	
	AK	
Note		
Life expectancy (MTTF):	999 (200 °C)	years
<p>When mounting one has to pay attention, that no damage will occur to the supply line and the insulation of the sensor. The supply line must be installed strain-relieved. Mechanical stress to the sensor should be avoided. The special security hints for the mounting regarding the EX approval are fixed in the above-named ATEX-approval which is available at EPHY-MESS (www.ephy-mess.de)</p>		
Special specification		
Special specification	SN72595-NWT-1C-PT100/B/2-3x8x100-5000 -II2G Exe II-EN10204-3.1-i150-SL20	