

Piros S is for non contact temperature measurement of metal materials. Having adjustable emissivity, response time and measuring range the sensor can be flexible used for many applications

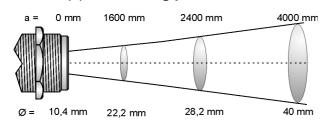
## **Technical Data**

ArtNo. 6920E  Measuring temperature range 250 - 1300 °C  Spectral range 1,5 1,8 µm  Output 4 - 20 mA  Measuring failure 0,5 %  Response time t95% min / max. 10 msec. / 10 sec.  Detected surface at 4 m Ø 40 mm  Emissivity adjustable 0,051,00  Integrated LED pilot light* yes (12 - 30 V DC)  Integrated MAX data storage yes  Service Interface USB yes  Load impedance < 700 Ohm (24 V)  Supply voltage stabilized 24 V DC +/- 25 %  Ripple voltage < 50 mV  Power consumption   ≤ 0,6 W  Power consumption pilot light   ≤ 35 mA  Ambient temperature 0 to +70 °C  Protection class IP 65  Connection Plug S9  Supply voltage display LED  Housing material stainless steel  Accessories (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B  Mounting clamp DAK 305 6913E	Туре	OKS 4 GA13.14 S9
Spectral range Output 4 - 20 mA Measuring failure 0,5 % Response time t95% min / max. Detected surface at 4 m Emissivity adjustable Integrated LED pilot light* Integrated MAX data storage Service Interface USB Load impedance Supply voltage stabilized Ripple voltage Power consumption Power consumption Power consumption pilot light Ambient temperature Protection class Connection Supply voltage display Housing material Accessories (not included in the scope of supply) Connection cable 2m, ST S9/5-2 Cooling jacket DAK 302  No Max. 10 msec. / 10 sec.  Ø 40 mm Ed 50 NO NO FOS (12 - 30 V DC) Integrated LED on, 5 msec. / 10 sec.  Ø 40 mm Ed 40 mm Ed 50 NO NO FOS (12 - 30 V DC) Ves (12 - 30 V DC) Ve	ArtNo.	6920E
Output 4 - 20 mA  Measuring failure 0,5 %  Response time t95% min / max. 10 msec. / 10 sec.  Detected surface at 4 m Ø 40 mm  Emissivity adjustable 0,051,00  Integrated LED pilot light* yes (12 - 30 V DC)  Integrated MAX data storage yes  Service Interface USB yes  Load impedance < 700 Ohm (24 V)  Supply voltage stabilized 24 V DC +/- 25 %  Ripple voltage < 50 mV  Power consumption ≤ 0,6 W  Power consumption pilot light ≤ 35 mA  Ambient temperature 0 to +70 °C  Protection class IP 65  Connection Plug S9  Supply voltage display LED  Housing material stainless steel  Accessories (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Measuring temperature range	250 - 1300 °C
Measuring failure       0,5 %         Response time t95% min / max.       10 msec. / 10 sec.         Detected surface at 4 m       Ø 40 mm         Emissivity adjustable       0,051,00         Integrated LED pilot light*       yes (12 − 30 V DC)         Integrated MAX data storage       yes         Service Interface USB       yes         Load impedance       < 700 Ohm (24 V)	Spectral range	1,5 1,8 μm
Response time t95% min / max.  Detected surface at 4 m  Emissivity adjustable  Integrated LED pilot light*  Integrated MAX data storage  Service Interface USB  Load impedance  Supply voltage stabilized  Ripple voltage  Power consumption  Power consumption pilot light  Ambient temperature  Protection class  Connection  Supply voltage display  Housing material  Accessories  (not included in the scope of supply)  Connection cable 2m, ST S9/5-2  Cooling jacket DAK 302  Aves (12 – 30 V DC)  yes  12 – 30 V DC)  yes  13 – 40 Ohm (24 V)  Sup Ohm (24 V)  24 V DC +/- 25 %  25 mA  26 ot +70 °C  Protection class  IP 65  Connection  Plug S9  Stainless steel  ArtNo.  9847B  6913B	Output	4 – 20 mA
Detected surface at 4 m  Emissivity adjustable	Measuring failure	0,5 %
Emissivity adjustable 0,051,00 Integrated LED pilot light* yes (12 − 30 V DC) Integrated MAX data storage yes Service Interface USB yes Load impedance < 700 Ohm (24 V) Supply voltage stabilized 24 V DC +/- 25 % Ripple voltage < 50 mV Power consumption ≤ 0,6 W Power consumption pilot light ≤ 35 mA Ambient temperature 0 to +70 °C Protection class IP 65 Connection Plug S9 Supply voltage display LED Housing material stainless steel Accessories (not included in the scope of supply) Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B	Response time t95% min / max.	10 msec. / 10 sec.
Integrated LED pilot light* yes (12 – 30 V DC) Integrated MAX data storage Service Interface USB yes Load impedance < 700 Ohm (24 V) Supply voltage stabilized 24 V DC +/- 25 % Ripple voltage < 50 mV Power consumption ≤ 0,6 W Power consumption pilot light ≤ 35 mA Ambient temperature 0 to +70 °C Protection class IP 65 Connection Plug S9 Supply voltage display LED Housing material stainless steel Accessories (not included in the scope of supply) Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B	Detected surface at 4 m	Ø 40 mm
Integrated MAX data storage  Service Interface USB  Load impedance  Supply voltage stabilized  Ripple voltage  Power consumption  Power consumption pilot light  Ambient temperature  Protection class  Connection  Supply voltage display  Housing material  Accessories  (not included in the scope of supply)  Connection cable 2m, ST S9/5-2  Cooling jacket DAK 302  Yes  yes  yes  yes  yes  yes  Yes  Yes	Emissivity adjustable	0,051,00
Service Interface USB       yes         Load impedance       < 700 Ohm (24 V)	Integrated LED pilot light*	yes (12 – 30 V DC)
Load impedance < 700 Ohm (24 V)  Supply voltage stabilized 24 V DC +/- 25 %  Ripple voltage < 50 mV  Power consumption ≤ 0,6 W  Power consumption pilot light ≤ 35 mA  Ambient temperature 0 to +70 °C  Protection class IP 65  Connection Plug S9  Supply voltage display LED  Housing material stainless steel  Accessories (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Integrated MAX data storage	yes
Supply voltage stabilized       24 V DC +/- 25 %         Ripple voltage       < 50 mV	Service Interface USB	yes
Ripple voltage < 50 mV  Power consumption ≤ 0,6 W  Power consumption pilot light ≤ 35 mA  Ambient temperature 0 to +70 °C  Protection class IP 65  Connection Plug S9  Supply voltage display LED  Housing material stainless steel  Accessories (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Load impedance	< 700 Ohm (24 V)
Power consumption ≤ 0,6 W  Power consumption pilot light ≤ 35 mA  Ambient temperature 0 to +70 °C  Protection class IP 65  Connection Plug S9  Supply voltage display LED  Housing material stainless steel  Accessories ArtNo.  (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Supply voltage stabilized	24 V DC +/- 25 %
Power consumption pilot light  Ambient temperature  O to +70 °C  Protection class  IP 65  Connection  Supply voltage display  Housing material  Accessories (not included in the scope of supply)  Connection cable 2m, ST S9/5-2  Cooling jacket DAK 302  S mA  O to +70 °C  Plug S9  LED  Stainless steel  ArtNo.  9847B  6913B	Ripple voltage	< 50 mV
Ambient temperature 0 to +70 °C Protection class IP 65 Connection Plug S9 Supply voltage display LED Housing material stainless steel Accessories ArtNo. (not included in the scope of supply) Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B	Power consumption	<u>&lt;</u> 0,6 W
Protection class IP 65 Connection Plug S9 Supply voltage display LED Housing material stainless steel Accessories ArtNo. (not included in the scope of supply) Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B	Power consumption pilot light	<u>&lt;</u> 35 mA
Connection Plug S9 Supply voltage display LED Housing material stainless steel Accessories ArtNo. (not included in the scope of supply) Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B	Ambient temperature	0 to +70 °C
Supply voltage display  Housing material  Accessories  (not included in the scope of supply)  Connection cable 2m, ST S9/5-2  Cooling jacket DAK 302  LED  ArtNo.  9847B  6913B	Protection class	IP 65
Housing material stainless steel  Accessories ArtNo. (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Connection	Plug S9
Accessories ArtNo. (not included in the scope of supply)  Connection cable 2m, ST S9/5-2 9847B  Cooling jacket DAK 302 6913B	Supply voltage display	LED
(not included in the scope of supply)  Connection cable 2m, ST S9/5-2  Cooling jacket DAK 302  9847B  6913B	Housing material	stainless steel
Connection cable 2m, ST S9/5-2 9847B Cooling jacket DAK 302 6913B		ArtNo.
Cooling jacket DAK 302 6913B		0947P
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<sup>\*</sup>switchable if needed

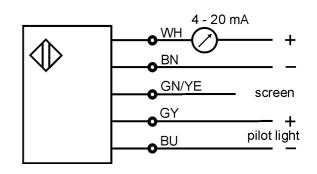
The emissivity, the response time as well as the measuring subrange may be adjusted with optional PC service software and PC-adapter cable.

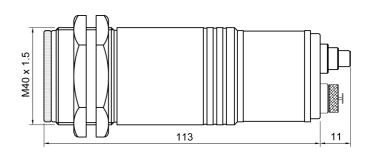
## Distance (a) / Measuring point diameter





## **Diagram of connections**





08.07.2009 Details are subject to change without notice.

WG 630