

	Universal type		Fast type	For metal	High resolution	Adapted size for replacements		Precision-Sensor (2M for metal)		
Series	SINGLE PIECE UNITS - Compact Series									
Base Model	CS	CSmicro	CSmicro 2W	CSmicro 2W	CSmicro 2W	CSmicro	CX	CXHS	CSlaser	CSlaser
Type	LT	LT10/LT02	LT15	LT10F	2M	hs	LT22	hs LT15	LT	2M
Classification / special features	Small one-piece sensor with LED alarm/aiming support	Micro-sized sensor with additional alarm output	Micro-sized two-wire LT sensor	Micro-sized two-wire LT sensor with fast response time	Micro-sized two-wire 2M sensor for metal applications	Micro-sized two-wire LT sensor with high thermal sensitivity	Two-wire LT sensor for rugged applications	Two-wire LT sensor with high thermal sensitivity	Two-wire LT sensor with high optical resolution and laser sighting	Two-wire 2M-sensor with high optical resolution, laser sighting for high temp. metal applications
Detector	Thermopile	Thermopile	Thermopile	Thermopile	InGaAs	Thermopile	Thermopile	Thermopile	Thermopile	InGaAs
Sensing head exchangeable	-	-	-	-	-	-	-	-	-	-
Head cable shortening	■	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■	■
Thread (sensing head)	M12x1	M12x1	M12x1	M12x1	M12x1	M12x1	1,5"-20 UNF-2B	1,5"-20 UNF-2B	M48x1,5	M48x1,5
Spectral range	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,6 µm	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,6 µm
Temperature ranges	-20...350°C	-20...350°C	-30...900°C	-30...900°C	385...1600°C	-20...150°C	-30...900°C	-20...150°C	-50...975°C	385...1600°C
Temperature resolution	0,2°C	0,2°C	0,1°C	0,2°C	0,1°C	0,025°C [>20°C]	0,1°C	0,025°C [>20°C]	0,1°C	0,1°C
Optical resolution	10:1	10:1/ 2:1	15:1	10:1	75:1	15:1	22:1	15:1	50:1	300:1
Option: CF lens	■	■	■	■	■	■	■	■	-	-
Smallest spot (CF optics/ add. CF lens)	1,2mm@ 10mm	1,2mm@ 10mm	0,8mm@ 10mm	1,2mm@ 10mm	1,5mm@ 110mm	0,8mm@ 10mm	0,6mm@ 10mm	0,8mm@ 10mm	1,4mm@ 70mm	0,5mm@ 150mm
Smallest spot (SF optics)	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	24mm@ 1200mm	3,7mm@ 1100mm
Sighting	LED aiming	-	-	-	-	-	-	-	-	-
Response time (90%)	30ms	30ms	150ms	30ms	10ms	150ms	150ms	150ms	150ms	10ms
Accuracy	±1,5°C or ±1,5%	±1,5°C or ±1,5%	±1,5°C or ±1%	±1,5°C or ±1%	±(0,3% T _{meas} +2°C)	±1°C or ±1%	±1,4°C or ±1%	±1°C or ±1%	±1°C or ±1%	±(0,3% T _{meas} +2°C)
Outputs analog: 0-20mA/ 4-20mA/ 0-5V/ 0-10V/ t/c (K/J)	- / - / ■ / ■ / -	- / - / ■ / ■ / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -
Second analog output	-	-	-	-	-	-	-	-	-	-
Interfaces: USB/ RS232/ RS485/ Profibus/ Ethernet	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -
Signal processing: Peak/ Valley/ AVG/ Advanced hold	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■
T _{amb} Head min.	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
T _{amb} Head max.	75°C	120°C	85°C	120°C	125°C	75°C	75°C	75°C	85°C	85°C
T _{amb} Electronics max.	75°C	75°C	75°C	75°C	75°C	75°C	75°C	75°C	85°C	85°C
Functional inputs/ number	■ / 1	■ / 1	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Extern emissivity adjustment	■	■	-	-	-	-	-	-	-	-
External ambient control	■	■	-	-	-	-	-	-	-	-
Trigger input for reset of hold	■	■	-	-	-	-	-	-	-	-
Digital I/O pins	-	-	-	-	-	-	-	-	-	-
Simultan analog & digital output	-	-	■	■	■	■	■	■	■	■
Alarm output alternatively to analog output	■	■	■	■	■	■	■	■	■	■
Additional alarm output	-	■	■	■	■	■	■	■	■	■
Power supply	5-7/ 12-28 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC
Standard cable length	1m	1m	1m	1m	1m	4m	8m	8m	3m	3m
Cable length options	3/ 8/ 15 m	-	-	-	-	-	-	-	8m/ 15m	8m/ 15m
Base price one unit EUR	145.--	195.--	285.--	285.--	395.--	560.--	450.--	560.--	610.--	680.--