

weber

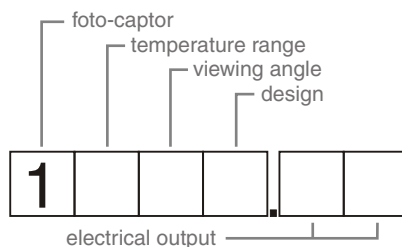
foto-captor



foto-captor compact version

foto-captors are available with different temperature ranges, viewing angles, housings, cooling jackets and electrical outputs. They are supplied with and without fiber optics, integral or remote lens systems. The "Type Code" is used to identify the part number of your desired unit.

Type code

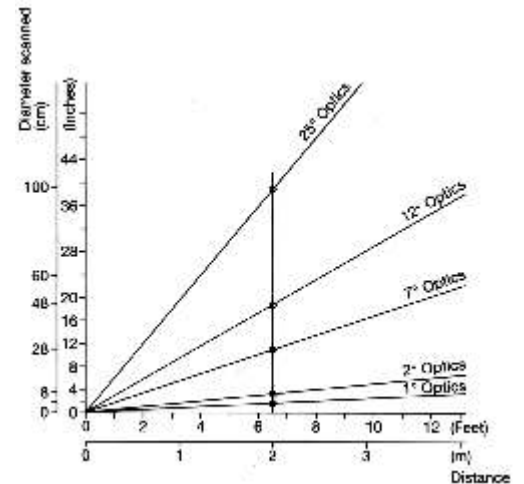


Technical Data

Type (see Type code)	11 - - - -	12 - - - -	13 - - - -	14 - - - -
Ambient temperature	-30°C to +45°C -22F to 113F	-30°C to +55°C -22F to 130F	-30°C to +75°C -22F to 165F	-30°C to +85°C -22F to 185F
Housing with or without cooling jacket	1.4541 stainless steel			
Construction	all parts & components are encapsulated			
Shock and vibration	in accordance with DIN 57.411			
Protection standard	IP65 / DIN 400 50			
Function indicator	green LED			
Overload indicator	red LED			
Electrical connection	molded armored silicone cable or connection socket			
Test function	standard for type 1-07.-- for compact types see 'foto captor design'			



Scanned Area at Various Distances Chart A



Temperature Response Curve Chart B

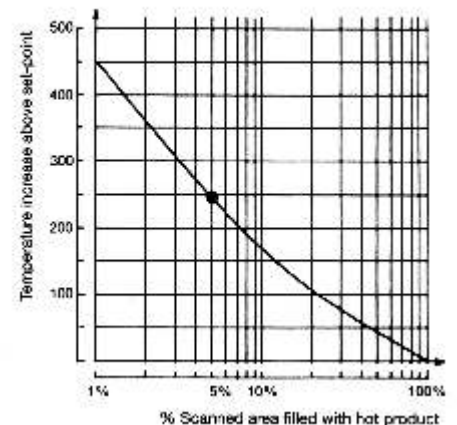


Chart B illustrates the increase in set-point temperature, required to operate the foto-captor, relative to the percentage of the scanned area containing the hot product.

Example:

foto-captor type 1331.-
response temperature, when
scanned area is covered
100% by hot product = 450 °C
However, if only 5% of scanned area
contains hot product, the foto-captor
requires an additional
(from chart above): 250 °C
Set-point temperature: +450 °C
Effective response temperature
is therefore: 700 °C

foto-captor

compact version

Design Options

Standard Housing

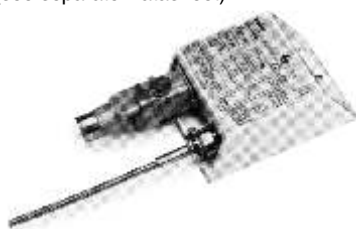


Cooling Jacket



Remote Electronics Unit

(see separate Datasheet)



Remote Lens

(see separate Datasheet)



Swivel Stand



Set-Point Temperature

1	?			
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Type code	1	2	3	4
Min. temperature response	270 °C 520 F	350 °C 662 F	450 °C 842 F	800 °C 1470 F

Optical Data

1		?		
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Type code	1	2	3	4	4	4	6	7	8
				V*/S* S100	V*/S* S102	V*/S*			
Viewing angle	1°	2°	7°	1° x 7°	1° x 15°	2° x 25°	25°	12°	½°
Scanned area in cm at 2m	4ø	8ø	28ø	4x28	4x60	8x100	100ø	FOC*	2ø
in inches at 6.5 ft. distance	1.5ø	3.2ø	11ø	1.5x11	1.5x24	3x40	40ø	FOC*	0.8ø

V* = vertical S* = horizontal FOC* = standard length 2m (6.5 ft.) see table FOC 12°** usable angle

foto-captor Design

1			?	
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Type code	1	2	3	4	5	6	7	8
Test circuit					•	•	•	•
Cooling Jacket		•		•		•		•
Cable	•	•			•	•		
Socket			•	•			•	•

Electrical Data

1				?	?
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Type code	62	63	14	15	42	43	40	41
Voltage	AC		DC					
Output Type	Thyristor		Thyristor antivalent		Optocoupler		Relay	
	N.O.	N.C.	PNP N.O.	PNP N.C.	N.C.	N.O.	N.C.	N.O.
			PNP N.C.	PNP N.O.			N.O.	N.C.
Supply voltage	90-125V or 196-244V		20-27V		20-27V		20-27V	
Max. load current	200 mA		500 mA		30V / 50 mA Ri = 240		250 VAC / 30 VDC 2A resistive load	
Min. load current	20 mA		--		--		--	
Leakage current	5 mA		--		--		--	
Current consumption	--		15 mA		15 mA		15 mA	
Switching frequency	20 Hz		1,000 Hz		1,000 Hz		50 Hz	
Switching delay activation	1 ms		0.9 ms		0.5 ms		4 ms	
Switching delay release	10 ms		0.1 ms		0.1 ms		2 ms	
Trip point for overload, SCP	approx. 275 mA		approx. 600 mA		--		--	
Voltage drop	12 V		2 V		acc. to load current		--	

Test Circuit

Internal voltage supply	115V or 230V	24V	24V	24V
Current consumption	approx. 13 mA	30 mA	30 mA	30 mA