



Lamtec Flame Detectors

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Sensor type	Influence	Detection range	Sensitivity
UV1 = Ultraviolet (260-400 nm)	■ none	✗ none	● small
UV2 = Ultraviolet (210-380 nm)	● moderate	✓ modest	●● moderate
UV3 = Ultraviolet (210-380 nm)	●● much	✓ good	●●● good
IR1 = Infrared (1200-2800 nm)			
IR2 = Infrared (850-1200 nm)		✕ Certification in hand	

Property	Applications			Certifications					Influences (detection less sensitive)					Fuel type						Response time/ sensitivity	
	Single burner	Multiple burner plant	Furnace	TÜV	CE	ATEX (PTB)	DVGW	GOST	Hydrocarbon vapour	Coal dust	Heat sources	Glowing particles	Smoke	Hydrogen	Ether, Methanol	Coal	Wood/paper	Gas (butane, propane or equivalent)	Oil, petrol, diesel or equivalent	Response time	Sensitivity
F200K1 UV1	✓	✗	✗	✕	✕	✕	✕	✕	●	●	·	·	·	✓	✗	✓	✓	✓	✓	1 sec	●●
F200K2 UV1	✓	✓	✗	✕	✕	✕	✕	✕	●	●	·	·	·	✓	✗	✓	✓	✓	✓	1 sec	●●●
F200K1 UV2	✓	✓	✗	✕	✕	✕	✕	✕	●	·	·	·	·	✗	✓	✗	✗	✓	✓	1 sec	●●
F200K2 UV2	✓	✓	✗	✕	✕	✕	✕	✕	●	·	·	·	●	✗	✓	✗	✗	✓	✓	1 sec	●●●
F200K1 UV3	✓	✓	✗	✕	✕	✕	✕	✕	●	·	·	·	·	✗	✓	✗	✗	✓	✓	1 sec	●
F200K2 UV3	✓	✓	✗	✕	✕	✕	✕	✕	●	·	·	·	·	✗	✓	✗	✗	✓	✓	1 sec	●●
F200K1 IR1	✓	✗	✗	✕	✕	✕	✕	✕	●	●	●	●	●	✗	✓	✓	✓	✓	✓	1 sec	●●
F200K2 IR1	✓	✓	✓	✕	✕	✕	✕	✕	●	●	●	●	●	✗	✓	✓	✓	✓	✓	1 sec	●●●
F200K1 IR2	✓	✗	✓	✕	✕	✕	✕	✕	·	●	●	●	·	✗	✗	✓	✓	✓	✓	1 sec	●●
F200K2 IR2	✓	✓	✓	✕	✕	✕	✕	✕	·	●	●	●	·	✗	✗	✓	✓	✓	✓	1 sec	●●●

REMARK: Ex-Zone I & II are available only for UV1, UV2 & IR1 flame detectors