



# Certificate of Compliance

## FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Talentum Series 16000 Flame Detectors, Part Nos. 16219, 16519, 16549, 16589, 16591

*Approval Guide* Listing: Categories: Electrical Signaling, Alarm Signal Initiating Devices, Fire Detection, Flame-Actuated Hazardous Location Equipment - United States, Detectors, Flame

Listing appears on following page.

FFE Ltd  
9 Hunting Gate  
Hitchin Hertfordshire, SG4 0TJ  
United Kingdom

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s) of the following FM Approval Standards and other documents:

<i>Approval Standards</i>		<i>Other Standards</i>	
<i>Class Number</i>	<i>Date</i>	<i>Organization, Designation</i>	<i>Date</i>
3260	2018	ANSI/ISA 60079-0	2013
3600	2018	ANSI/ISA 60079-1	2013
3615	2018	ANSI/IEC 60529	2004
3616	2011		

Original Approval Job Identification: 0003059453

Approval Granted: 6 June 2018

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)



*Member of the FM Global Group*

  
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1151 Boston-Providence Turnpike,  
Norwood MA, 02062 USA

6 June 2018

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Date



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<b>Models</b>	Talentum Series 16000 Flame Detectors, Part Nos.16219 (IR <sup>3</sup> ), 16519 (IR <sup>3</sup> ), 16549 (IR <sup>3</sup> ), 16589 (IR <sup>3</sup> ), 16591 (UV/IR <sup>2</sup> )
<b>Firmware</b>	16219. Iss: 20-01 16519. Iss: 20-01 16549. Iss: 20-01 16589. Iss: 20-01 16591. Iss: 20-01
<b>Operating Voltage</b>	14 to 30 V dc
<b>Power Consumption</b>	Standby: 8 mA Alarm: 28 mA
<b>Operating Temperature Range</b>	-20°C to +60°C: 16519, 16549, 16589, 16591 -20°C to +85°C: 16219
<b>Outputs</b>	Fire and fault relays. Required Dip switch settings: both relays operating with RL2 as fault relay
<b>Compatibility</b>	Relays connect to a compatible FM Approved control providing separate power and initiating device circuits. Alarm relay setting as latching.
<b>Sensitivity</b>	High Class 1 setting
<b>Response Time</b>	Delay settings of 1 to 8 s. 30 s maximum response time specification is independent of delay setting.
<b>Fuels tested for response</b>	N-heptane, Methylated Spirit, JP4 (See Instructions for details)
<b>Environmental</b>	IP65: 16589, 16591 IP66: 16219, 16519, 16549
<b>Hazardous Location Equipment</b>	Part Nos. 16219, 16519, 16549. Talentum Series 16000 Flame Detectors  XP/II/1/ABCD/T4, IP66 I/1/AEx db/IIC/T4 Gb, IP66 DIP/II, III/1/EFG/T4, IP66 -20°C ≤ Ta ≤ +85°C  <b>Specific Conditions of Use:</b> 1. Suitably rated conduit seal required at the enclosure opening 2. Consult the manufacturer if dimensional information on the flameproof joints is necessary. 3. Risk of explosion due to electro-static charge. Static electricity charge may develop when cleaning the product with a dry cloth. It is imperative to avoid static electricity charge in the hazardous environment.
<b>Accessories</b>	Mounting brackets and weather shields
<b>This listing will appear in the following sections:</b> Fire Protection <input checked="" type="checkbox"/> Electrical Signaling <input checked="" type="checkbox"/> Alarm Signal Initiating Devices <input checked="" type="checkbox"/> Fire Detection, Flame-Actuated Electrical Equipment <input checked="" type="checkbox"/> Hazardous Location Equipment - United States <input checked="" type="checkbox"/> Detectors <input checked="" type="checkbox"/> Flame	



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