

Proreact[®] Programmable Activation Temperature Linear Heat Detection Sensor Cable

F3051

With stainless steel braid

F3052

The Proreact Programmable Activation Temperature LHD system uses a heat sensitive cable to monitor an area, critical equipment or the like, for an overheat or fire condition.

The resistance of the Proreact Programmable LHD cable decreases as the temperature around the cable increases. An abnormal change in resistance, due to an overheat condition, along the cable triggers either a Pre-Alarm or Alarm on the Proreact Programmable Composite Control Unit.



PRODUCTS	
F3051	Proreact Programmable Activation Temperature LHD Cable
F3052	Proreact Programmable Activation Temperature LHD Cable with stainless steel braid

FEATURES	
Designed for use in both indoor and outdoor installations	
Wide coverage - up to 500 metres (1,640 ft) of Proreact Fixed Activation Temperature LHD Cable per zone	
The Proreact Programmable Activation Temperature Composite Control Unit can monitor one zone of Proreact Programmable Activation Temperature LHD Cable	
Improved testing and maintenance functionality with the Proreact Programmable Activation Temperature End Of Line Unit	
Manufactured in the UK and short lead times ensuring quick delivery across Europe	

APPROVALS	
Worldwide approvals to meet end user specifications certification. Visit our website for up-to-date approvals information.	

APPLICATIONS	
Cable trays	Factories & processing plants
Car parks	Industrial
Cold storage	Oil and gas
Conveyor belts	Solar photovoltaic
Data centres	Warehouses
Energy	

BENEFITS	
Accommodates up to 500m (1,640 ft) of Programmable Activation Temperature Sensor Cable	
Enables a single system to provide suitable coverage over a wide area	
Does not have to be replaced following an alarm if the sensor cable is not subject to a temperature above its maximum recoverable temperature (125°C, 257°F)	
Compensates for ongoing changes in ambient temperature to reduce the likelihood of false alarms during operation	
Rate-of-rise activation feature allows for a response to quick escalations in temperature around the sensor cable	
Unaffected by dirt, dust, and damp	

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TO EXPLORE THE PROREACT
PRODUCT RANGE



Programmable Activation Temperature Linear Heat Detection Sensor Cable

F3051, F3052 [SS]

MECHANICAL SPEC	F3051	F3052
Material	Nylon	Stainless Steel over PVC
Colour	Black	Silver braid over Red
Diameter	6.0 mm (1/4")	5.3 mm (1/4")
Minimum bend radius	100 mm (4")	75mm (3")
Maximum zone length	500 m (1,640 ft)	500 m (1,640 ft)

ELECTRICAL SPEC	F3051	F3052
Activation temp. range	54°C to 100°C (129°F to 212°F)	
Maximum ambient temp.	Dependant on Alarm temp. see table below	
Minimum ambient temp.	-40°C (-40°F)	
Relative humidity	0-99% RH (ambient temp between -40°C to +40°C (-40°F to +104°F) 0-75% RH (ambient temp greater than +40°C (+104°F)	

SPACING	F3051	F3052
EN54	10.7 m (35 ft)	10.7 m (35 ft)
UL (Smooth Ceiling)	10.7 m (35 ft)	10.7 m (35 ft)
UL (to Wall or Partition)	5.3 m (17.5 ft)	5.3 m (17.5 ft)
Minimum bend radius	100 mm (4")	75mm (3")
Maximum zone length	500 m (1,640 ft)	500 m (1,640 ft)

CHEMICAL RESISTANCE SCALE 1-5*		
(1 = Not Recommended, 5 = Little to no impact)	F3051	F3051
Ammonia, Liquid / Gas	3	4
Ammonia Nitrate	1	5
Butane	5	5
Copper Nitrate	1	5
Fuel Oils	5	5
Gasoline	5	5
Hydrofluoric Acid	1	1
Methyl Ethyl Ketone	5	5
Diesel Fuel	5	5
Ethyl Alcohol	5	5
Ethanol	5	5

ALARM, PRE ALARM AND MAXIMUM AMBIENT TEMPERATURES					
Approval	Available controller settings	Nominal alarm temperature	Available pre-alarm temperature	Recommended typical application temperature	Maximum application temperature
EN54-22:2015	Class A1 I/A21	66°C (151°F)	54°C (129°F)	25°C (77°F)	50°C (122°F)
	Class B1	80°C (176°F)	54°C (129°F) 64°C (147°F)	40°C (104°F)	65°C (149°F)
UL	54	54°C (129°F)	Not available	15°C (59°F)	30°C (86°F)
	64	64°C (147°F)	54°C (129°F)	25°C (77°F)	47°C (117°F)
	72	72°C (162°F)	54°C (129°F) 64°C (147°F)	30°C (86°F)	47°C (117°F)
	79	79°C (174°F)	54°C (129°F) 64°C (147°F) 71°C (160°F)	35°C (95°F)	47°C (117°F)
	86	100°C (212°F)	54°C (129°F) 64°C (147°F) 71°C (160°F) 79°C (174°F)	40°C (104°F)	65°C (149°F)
	100	66°C (151°F)	54°C (129°F) 64°C (147°F) 71°C (160°F) 79°C (174°F) 93°C (199°F)	50°C (122°F)	65°C (149°F)

