DHI-HY-TSC-40DA

Linear Heat Sensing Cable (Conventional Type)

System Overview

Linear Heat Detection (LHD) is a continuous heat detector in the form of a cable. It can detect heat at any points along its entire length. It is composed of Linear Heat Sensing Cable (LHSC), adapter unit and termination unit. The digital LHSC is composed of two twisted shield conductors insulated with a heat sensitive material, then wrapped with a protective tape and finished with an outer jacket. The heat sensitive material will soften and fuse at specific fixed temperature which causes the contact of the conductors, the short circuit will trigger an alarm to the Fire Alarm Control Panel (FACP), thus realize the function of fire detection and warning.

Conventional type of LHSC is normally used in wide range of environmental conditions with strong stability, especially for general indoor use.

Ordering Information

Type	Model	Description
Linear Heat Detector	DHI-HY-TSC-40DA-68	Linear Heat Sensing Cable, Conventional Type, 68°C (154°F)
Linear Heat Detector	DHI-HY-TSC-40DA-88	Linear Heat Sensing Cable, Conventional Type, 88°C (190°F)
Linear Heat Detector	DHI-HY-TSC-40DA-105	Linear Heat Sensing Cable, Conventional Type, 105°C (221°F)
Linear Heat Detector	DHI-HY-TSC-40DA-138	Linear Heat Sensing Cable, Conventional Type, 138°C (280°F)

Technical Specification

Material of Core Conductor	Stell			
Diameter of Core Conductor	0.92 mm (0.04 ")			
Length of Cable	200 m (656 ft), 500 m (1640 ft)			
Resistance of Core Conductor (Two-cores, 25°C)	0.64±0.06 Ω/m			
Min Bend Radius	15 cm (5.9")			
UL Approvals/ Max. Listed Spacing	15.2 m (50 ft)			
Alarm Temperature	68°C (154°F)	88°C (190°F)	105°C (221°F)	138°C (280°F)
Accuracy	±3°C (±5.4°F)	±5°C (±9.0°F)	±5°C (±9.0°F)	±5°C (±9.0°F)
Responding Time	≤ 10 s	≤ 10 s	≤ 15 s	≤ 20 s
Color of Outer Jacket	Blue	Red	White	Yellow
Operating Temperature	–40°C to +45°C (-40°F to +113°F)	–40°C to +60°C (-40°F to +140°F)	–40°C to +75°C (-40°F to +167°F)	–40°C to +93°C (-40°F to +199.4°F)
Storage Temperature	-20°C to 50°C (–4°F to +122°F)			
Operating Humidity	≤ 95% RH (non-condensing)			

Rev 001.001