

Auto Cable Reeler

Alarmline II Series



Overview

The automatic cable reelers are supplied with an explosion proof polycarbonate junction box (K241EX) or Stainless Steel junction box (K247EX). A cable reeler is normally placed on the roof of a floating roof tank structure where it ensures electrical continuity between linear heat detection (LHD) sensor cable and the fire detection system during the upward and downward movement of the floating roof. The cable reeler ensures that the cable remains taught and prevents that cable from getting jammed in the moving parts of the roof.

Installation

Installed on the top rim of a tank body, the cable is connected to a junction box (eg. 1-B6782-190) on the tank roof. The reeler follows the movement of the roof, uncoiling the cable as the roof lowers, and winding the cable when the roof rises.

Application

The 1-53836-K241EX supports a cable drop of up to 25m. For hazardous areas, suitable safety barriers are required.

Standard Features

- Simplifies electrical connections of floating roof tanks
- Collects and releases cable in moving installations avoiding cable jams
- Supplied with suitable chemical resistant cable
- Flame retardant



Australia & New Zealand

Phone: 1800 672 171
Outside Australia: +61 3 9518 5588
Email: firesecuritycs@carrier.com
Web: www.kidde.com.au

Head Office

10 Ferntree Place
Notting Hill, Victoria 3168
Australia

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Specifications

| | K241EX | K247EX |
|--------------------------|-----------------------------------------|--------------------------|
| Material | | |
| Housing | Stainless Steel AISI 304 | Stainless Steel AISI 304 |
| Junction Box | GRP | Stainless Steel AISI 304 |
| Cable | | |
| Cores | 4 x 1mm ² | |
| Coating | Santopene | |
| Length | 22m | |
| Resistance | 19.5 Ohm/km | |
| Capacitance | 80 nF/km | |
| Inductance | 0.9 mH/km | |
| Insulation resistance | 100 Mohm/km | |
| Environmental | | |
| Installation temperature | -40°C to +70°C | |
| Operating temperature | -20°C to +70°C | |
| Certification | | |
| ATEX | EUM1 10 ATEX 0346, II 1 3G Ex ia IIC T6 | |

Ordering information

| Part number | Description |
|----------------|-----------------------------------------------------------|
| 1-53836-K241EX | Auto Cable Reeler w/EX Polycarbonate Junction Box, ATEX |
| 1-53836-K247EX | Auto Cable Reeler w/EX Stainless Steel Junction Box, ATEX |
| 1-B6782-189 | EExe GRP Junction Box (2 entry) |
| 1-B6782-190 | EExe GRP Junction Box for Tank Roof (3 entry) |