

Floating Roof Storage Tanks

LHDC Rim Seal Fire Detection Ancillaries

IECEX and ATEX Certified Automatic Cable Reeler

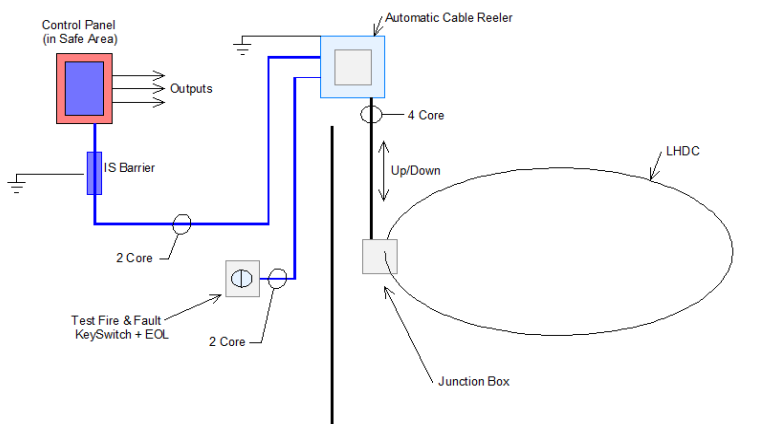


A rim seal fire detection system using Linear Heat Detection Cable (LHDC) can be installed at the edge of the rim seal of a floating roof tank. An Automatic Cable Reeler provides the electrical connection between LHDC and control panel and accommodates the rise and fall of the floating roof.

The Patol Automatic Cable Reeler is installed at the top of the tank with the cable connected to the junction box located on the floating roof. The Automatic Cable Reeler adjusts for the movement of the roof, uncoiling cable when the level falls, and winding the cable when the level rises. This can also be used on a storage tank with Fixed roof and Internal Floating roof with alternative mounting arrangements.

The mechanism is enclosed within a stainless steel cabinet. The connecting cable is resistant to chemical and high temperatures. A removable plate allows inspection and maintenance of the spring without the need to remove the unit.

Floating Roof Electrical Schematic



Features

Rim seal Fire Detection for use with Linear Heat Detection Cable (LHDC)

IECEX and ATEX certified

Automatic Cable Reeler to accommodate up and down movement

Can be mounted both horizontally and vertically

IP42 rating

Removable plate to allow inspection and maintenance of the spring without the need to remove the unit

Intrinsically safe operation when using certified Barriers/Isolators

Marking:

IECEX Ex ia IIC T6 Ga/Gb

(Applies for $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$)

IECEX Ex ia IIC T4 Ga/Gb

(Applies for $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$)

ATEX II 1/3G Ex Ia IIC T6

Specification

Dimensions: HxWxD (mm) 400 x400 x160

Weight: 25Kg

Operating Temperature: $-20^{\circ}\text{C} - +70^{\circ}\text{C}$

Materials: Stainless Steel AISI 316

Internal Spring : Carbon Steel

Ordering Information

Description	Part Number
IECEX/ATEX Automatic Cable Reeler	
Stainless Steel AISI 316	700-554
with Stainless Steel Junction Box	

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LHDC Rim Seal Fire Detection Ancillaries

LHDC End Of Line Terminator with Fire and Fault Test Key Switches



End Of Line Terminator

Dimensions:	126mmx 126mm x 80mm
Weight:	1.1Kg
Material:	Stainless Steel AISI 316
IP Rating:	IP66
Glands:	M16 Brass Nickel x 1

Ordering Information

End Of Line Terminator
c/w Fire and Test Switch

Stainless Steel AISI 316 (DIM) 700-517

Stainless Steel Junction Box



Junction Box

Dimensions:	126mmx 126mm x 80mm
Weight:	1Kg
Material:	Stainless Steel AISI 316
IP Rating:	IP66
Glands:	M16 Brass Nickel x 1 M12 Brass Nickel x 2

Ordering Information

Junction Box

Stainless Steel AISI 316 700-523