

# ELS-R series

## Rotary paddle Level-Limit-Sensor

### Instruction Manual

Adpro-Instruments Ltd.  
Malta

#### General Safety /Warning Notes

Installation, maintenance and commissioning must be accomplished only by qualified technical personnel.

The product must be used only in the manner outlined in this instruction manual. In the case of inexpert handling or handling malpractice, the safety of the device cannot be guaranteed.

For terminal connection of the device, the local regulations or VDE 0100 (Regulations of German electrotechnical Engineers) must be observed.

Switch off the supply voltage before opening the device.

All field wirings must have insulation suitable for at least 250V AC. The temperature rating must be at least 90°C.

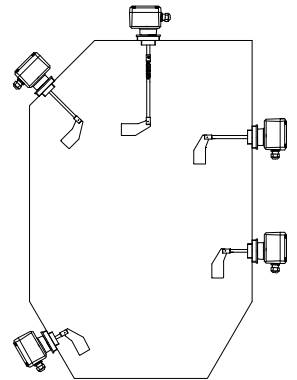
In the case of a defect, the distribution voltage must automatically be cut off by a RCCB protection switch so as to protect the user of the device from indirect contact with dangerous voltage.

A voltage-disconnecting switch must be provided near the device.

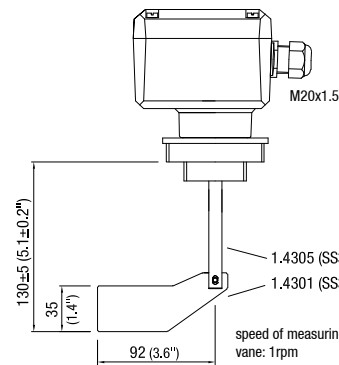
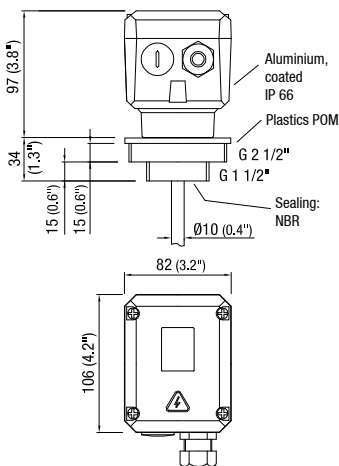
Materials of construction must be checked on their chemical compatibility.

#### Applications

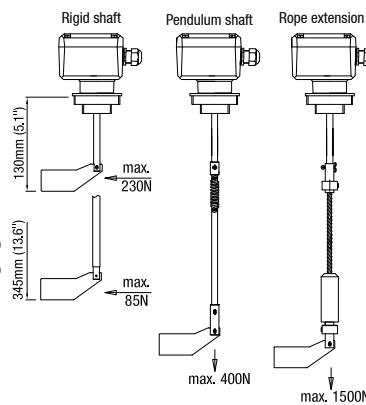
Level Limit Switch for monitoring of bulk goods. Applicable as full-, demand- and empty detector.



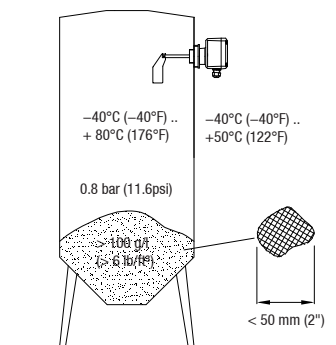
#### Technical data / Process specifications



Dimensions in mm (inch)

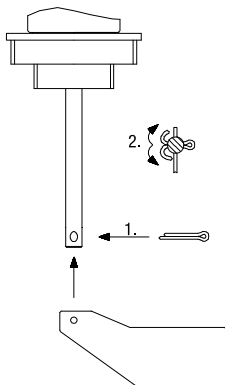


Version with extension only permitted as full detector.



With temperatures below -25°C (-13°F) the motor start may delay up to 1 min (detection of covered to uncovered).

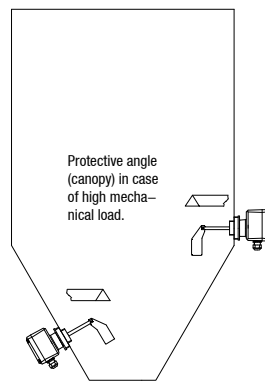
#### Assembly



Note:  
For assembly of shaft/rope extensions see separate instruction delivered with the extensions.

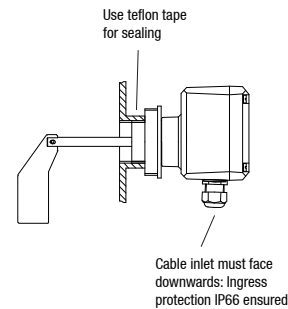
#### Installation

##### Mechanical load



Version with extension only permitted as full detector.

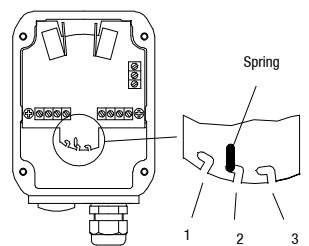
##### Fixing / Sealing



Use suitable cable glands or conduit system. Not used entries have to be closed tight.

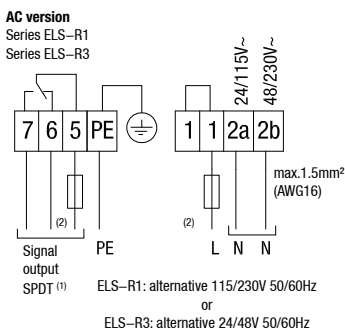
#### Adjustment

##### Adjustment of the spring force



1 light: light material  
2 central: universal  
3 strong: very sticky material

#### Electrical connection



Supply voltage ±10% (including 10% from EN 61010), max. 4VA

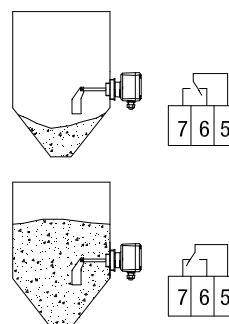
(1) max. 250V AC, 2A, 500W  
max. 300V DC, 2A, 60W  
(2) fuse max. 10A, HBC, 250V, fast or slow

Supply voltage ±10% (including 10% from EN 61010), max. 2,5W

(1) max. 250V AC, 2A, 500W  
max. 300V DC, 2A, 60W  
(2) fuse max. 10A, HBC, 250V, fast or slow

#### Switching logic / Maintenance

##### Switching logic



Maintenance  
Normally not required

#### EU - Declaration of Conformity

Manufacturer Adpro-Instruments, Malta  
Type Level Limit Sensor, Series ELS-R

2014/35/EU Low Voltage Directive

Applied standards for evaluation of the unit:  
EN 61 010-1

2014/30/EU Electromagnetic compatibility

Applied standards for evaluation of the unit:  
EN 61 326

We hereby confirm, that the above-mentioned unit corresponds with the essential safety targets, which are fixed in the above mentioned directives.

Information to the signer:

Name: Dipl. Ing. (FH) A. Haug, Head of Engineering  
Date: 07/2016  
Unterschrift / Sign: *A. Haug*