



Selection Catalogue Of Rotary Paddle
Type Level Switch



阻旋式料位开关 Rotary Paddle Type Level Switch

Date of Founding	:	March 16, 2005
Registered Capital	:	12,500,000.00
Address	:	Unit 57 & 57 Century Complex V Salawag Dasmariñas, Cavite
Contact no.	:	(046)419-8440
No. Of Employees	:	60
Main Product	:	Pneumatic Equipment, Hydraulic Equipment, Airdryer, Compressor, Main Filter, Actuator and ball valve Butterfly Valve, Gate Valve, Hopper Dryer & MTC, Motors, Electrical Equipment, Load cell, Generators, Machine and OEM.

COMPANY MISSION

Offering our products and service with the BEST QUALITY on time,
with the BEST COSTING at the same time keep enhancing
Technology in our process by INNOVAIONS within our team members.
In order to help our customer fulfilling end users requirments

ATC The Best Industrial Equipment

Quality–ATC commit to keep on enhancing the reliability value in our products so our clients should be able to rely on the products we are providing to them on fulfilling their commitment to their clients.

Service –ATC commit to maintain on time delivery and best communication in our services so ourclients would find their support whenever they need our service.
And thereby our customers may deliver to
their clients in the necessary time frame.

Costing –ATC commit to be continuously enhancing our efficiency without sacrificing quality standards to offer best products with the best costs to enhance our clients' competition power and eventually benefiting all consumers in the market.

Innovation –ATC commit to put in remarkable resources to persistently pursue latest technology in order to
enhance our quality, delivery, efficiency standards together with providing more products for various application requirements for our clients so they may easily obtain our service so their customers will also enjoy the precious result coming from the cooperation.

工作原理 Working Principle

利用电机带动叶片旋转,当被测介质上升到叶片位置时,叶片受介质阻挡停止转动从而通过相关控制机构输出开(通)或关(断)的触点信号;介质下降离开叶片时,在弹簧的作用下,叶片恢复原位继续转动探测介质的位置变化。

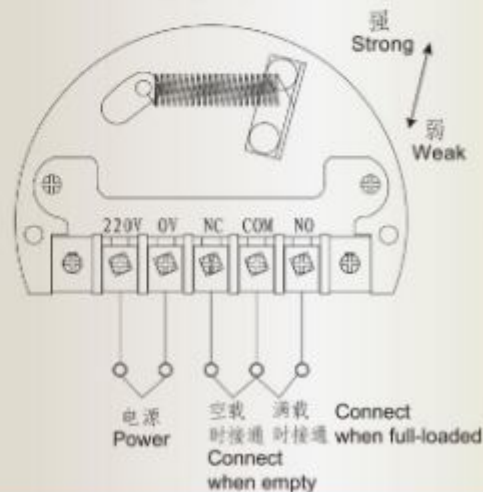
Making use of the electrical machinery to bring blade revolving, when the medium rises to the blade position, the blade stops rotation because of the impediment of the medium, thus through the related control organization outputs open (pass) or close (break) the electronic contact signal; When the medium drops and leaves the blade, under the function of spring, the blade restores the beginning position to continue to rotate and survey the variation position of the medium.

特点 Features

- ◆ 检测散装固体物料的旋转叶片式开关技术
- ◆ 高度集成的机械密封, 可防止粉尘沿轴渗入
- ◆ 独特的弹性离合器结构, 叶片过载时, 自动保护电机
- ◆ 完全的机电分离式结构, 整体免拆卸易维护
- ◆ 特殊叶片可用于低密度物料
- ◆ 使用过程连接件, 安装简单
- ◆ Detection of loose solid materials using the technology of the rotating blade
- ◆ The highly integrated mechanical seal to prevent infiltration of dust along the axis
- ◆ The unique elastical clutch structure, when the blade being overloaded, the automatic protection of electrical machinery could be realised.
- ◆ Completely mechanical and electrical separation structure, need not to demolish wholly, easy to maintain
- ◆ Special blades can be used for low-density mediums
- ◆ Use of the process connecting pieces, easy to install



灵敏度调节
Sensitivity Adjustment



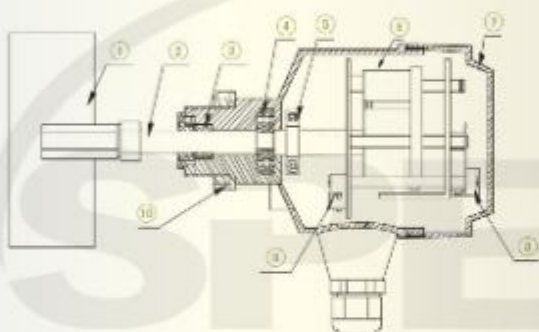


阻旋式料位开关 Rotary Paddle Type Level Switch

技术参数 Specifications

电源电压: 标准型: 220VAC (110VAC、24VAC、**24VDC**)
触点容量: 250VAC/5A (阻性负载), SPDT (单刀双掷)
工作温度: -30~80℃ (普通高温型最高可达200℃
特殊订制高温型最高可达800℃)
功率: 3W
旋转力矩: 1N·m
叶片转速: 1rpm
叶片材质: SUS304
防护等级: IP65
出线口: M20×1.5
适用物料比重: $\geq 0.4\text{g/cm}^3$

Power Supply : Standard: 220VAC (110VAC、24VAC、**24VDC**)
Contact Capacity: 250VAC/5A (Resistive Load), SPDT
Operating Temperature: -30~80℃ (Normal high temperature up to 200℃ ; Special tailor-made high temperature up to Max 800℃)
Power: 3W
Rotating Torque : 1N·m
Blade Rotational Speed: 1rpm
Blade material: SUS304
Protection Grade: IP65
Wire Outlet: M20 × 1.5
Proportion of the Applicable Medium: $\geq 0.4\text{g/cm}^3$



1、叶片
Blade
2、传动轴
Drive Shaft
3、密封结构组件
Sealed Components

4、轴承
Bearing
5、离合器
Clutch
6、马达
Motor

7、接线盒 (壳体)
Junction Box (Shell)
8、接线端子排
Terminal Blocks
9、微动开关
Microactive Switch
10、螺母
Nut

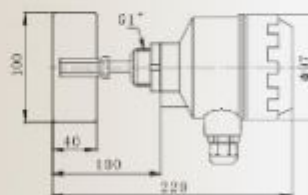
SR2-10S

标准螺纹型

(可水平或垂直安装)

Standard Screw Type

(Vertical and Horizontal Installation both Acceptable)



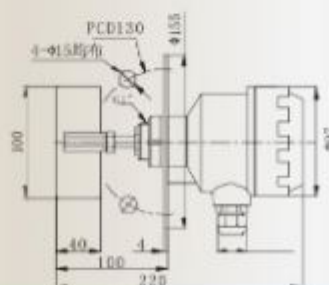
SR2-10F

标准法兰型

(可水平或垂直安装)

Standard Flange Type

(Vertical and Horizontal Installation both Acceptable)



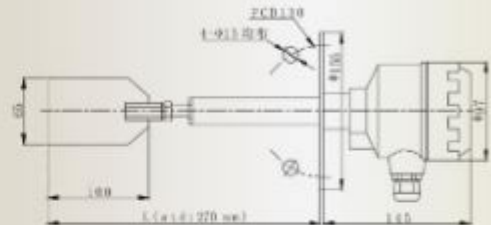
SR2-20F

轴保护管型

(可水平或垂直安装)

Axis Protection Tube Type

(Vertical and Horizontal Installation both Acceptable)



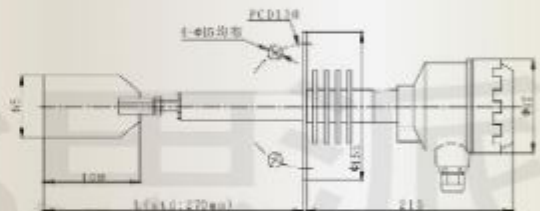
SR2-20F-T

轴保护管高温型

(可水平或垂直安装)

Axis Protection Tube and Tigh Temperature Type

(Vertical and Horizontal Installation both Acceptable)



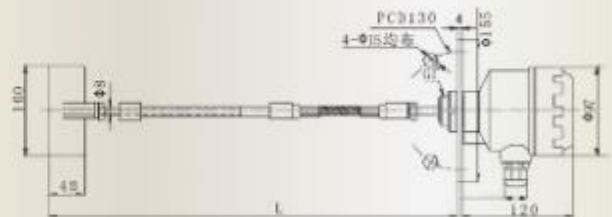
SR2-30F

轴长可调型

(仅限垂直安装)

Adjustable Axis Length Type

(Only for Vertical Installation)



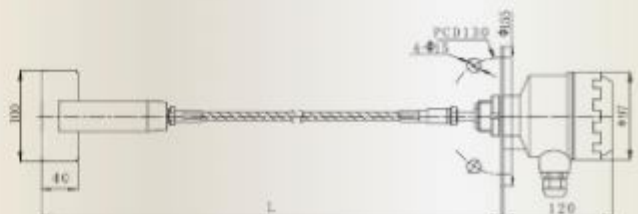
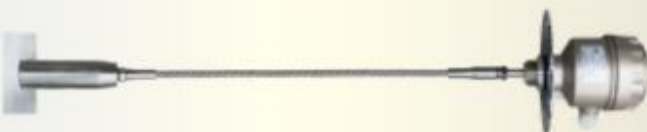
SR2-40F

钢索型

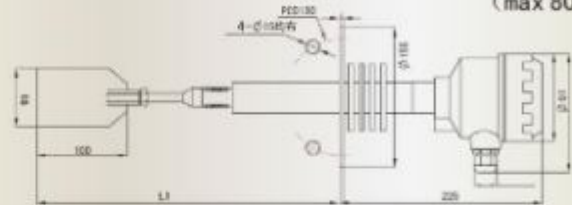
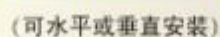
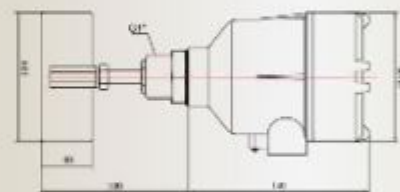
(仅限垂直安装)

Steel Cable Type

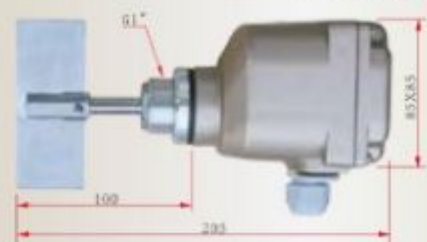
(Only for Vertical Installation)



(Vertical and Horizontal Installation both Acceptable)
(max 800℃)

[illegible]

(可水平或垂直安裝)



选型指南 Configuration

SR2— —
SR— —

其它 Others (默认为常温型) (Standard type provided without being specified)

T 标准高温型 Standard High Temperature Type (max 200℃)

H 特殊定制高温型 Special High Temperature Type (max 800℃)

总长度 Total Length

单位 Unit: mm

叶片型式 Blade Type

见下图 See the following figures



A

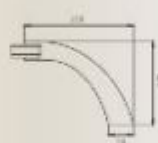
电源 Power



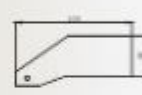
B



C



D



E

特殊定制
Special Order

S

A. 220VAC

B. 110VAC

C. 24VAC

D. 24VDC

安装连接方式 Connecting Way

F-法兰 (标准: JIS 2-1/2"×5kg/cm²)、S-螺纹、X-其它 (详细规格需说明)

F-flange (standard: JIS 2-1/2"×5kg/cm²) S-screw X-others (detailed specifications need to indicate)

连轴形式 Connecting Axis Form

10-标准型 Standard Type

20-轴保护管型 The Axis Protection Tube Type

30-轴长可调型 Axial Length Adjustable Type

40-钢索型 Steel Cable Type

50-特殊订制型 Special Ordered

SR2系列为SR系列的改进型 SR2 is the improved version of the SR

选型举例 Selection for example

SR2-10SAA-0800

标准螺纹型/ 电源: 220VAC/ 一字叶片 (100x40mm) / 总长为800mm的常温型阻旋料位开关

This model number stands for the Standard Screw Type Rotary Paddle Type Level Switch/
Power Supply: 220VAC / One-word Blades (100x40mm) / Total Length: 800mm.

适用场所 Applicable places

适用于粮食、饲料、水泥、塑料加工、基础工程、化工化纤等行业的制造加工设备。

Applicable to the Manufacturing and Processing Equipment in the Industry of Food, Feed, Cement, Plastics Processing, Basic Engineering, Chemical and Chemical Fiber etc.



小型阻旋式料位开关 Small Rotary Paddle Type Level Switch

工作原理 Working Principle

利用电机带动叶片旋转,当被测介质上升到叶片位置时,叶片受介质阻挡停止转动从而通过相关控制机构输出开(通)或关(断)的触点信号;介质下降离开叶片时,在弹簧的作用下,叶片恢复原位继续转动探测介质的位置变化。

Making use of the electrical machinery to bring blade revolving, when the medium rises to the blade position, the blade stops rotation because of the impediment of the medium, thus through the related control organization outputs open (pass) or close (break) the electronic contact signal; When the medium drops and leaves the blade, under the function of spring, the blade restores the beginning position to continue to rotate and survey the variation position of the medium.



特点 Features

- 结构紧凑, 外形小巧
- 锌合金壳体, 坚实可靠
- 原装进口电机, 性能稳定
- 不同物料检测, 有多种叶片供选择
- 小型料仓(料斗)料位检测的最佳选择
- Compact structure, small and convenient
- Zinc alloy shell, solid and reliable
- Imported motor, stable performance
- Detection of different mediums, many kinds of blades to choose
- Small tank, the best choice for detection

技术参数 Specifications

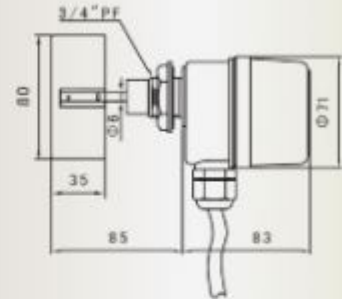
电源电压: 标准型: 220VAC (110VAC、24VAC、24VDC)
输出: 250VAC/5A (阻性负载), SPDT (单刀双掷)
导线: 5芯护套线长500mm
安装: 螺纹3/4" PF (可根据要求定制)
功率: 1.5 W
检测扭矩: 约4.9N.cm
叶片转速: 1rpm
叶片规格: 80×35mm (一字、镰刀、弹簧叶片可选)
插入长度: 标准型: L=85mm (可特殊加长定制)
介质温度: 常温型: -30~80℃、高温型: max 200℃

Power Supply: Standard Type: 220VAC (110VAC, 24VAC, 24VDC)
Output: 250VAC/5A (resistive load), SPDT
Conducting Wire: 5 core 500mm long sheath
Installation: Screw 3/4" PF (user required to order)
Power: 1.5 W
Torque Detection: about 4.9N.cm
Blade Rotational speed: 1rpm
Blade Specification: 80×35mm (one word, sickle, spring blade to choose)
Inserting Length: standard type: L=85mm (can be specially extended)
Medium Temperature: common temperature type: -30℃~80℃
 high temperature type: max 200℃

SR-80

标准型

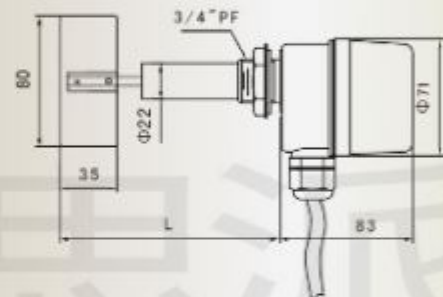
Standard Type



SR-80L

轴保护管加长型

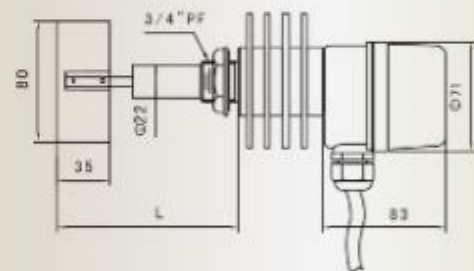
The Axis Protection Tube Stretch Type



SR-80T

高温型

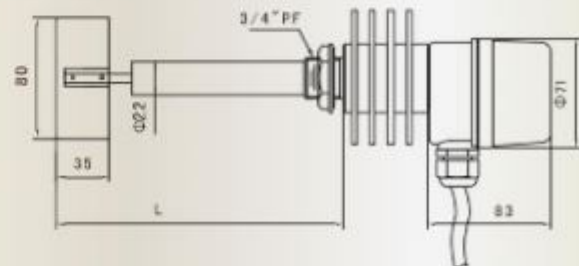
High Temperature Type



SR-80LT

高温加长型

High Temperature Stretch Type





小型阻旋式料位开关 Small Rotary Paddle Type Level Switch

选型指南 Configuration

SR-80 □-□ □-□□□□

插入深度 Inserting Depth

单位 unit: mm

叶片规格 Blade Specifications

S: 标准型一字叶片 Standard One Word Blades

Y: 弹簧叶片 Spring Blades

X: 特殊定制叶片 Special Ordered Blades

L: 镰刀叶片 Sickle Blades

电源 Power

A: 220VAC B: 110VAC C: 24VAC D: 24VDC

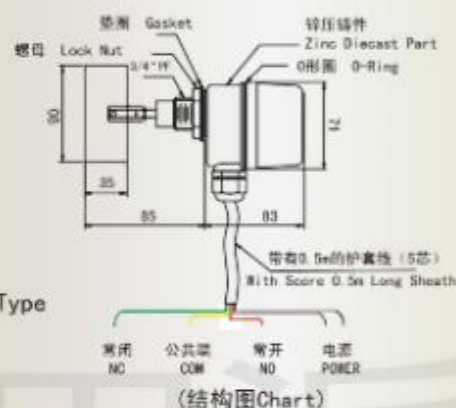
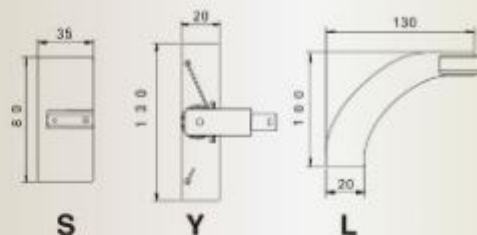
类型 Type

S: 标准型 Standard Type

L: 轴保护管加长型 The Axis Protection Tube Stretch Type

T: 高温型 High Temperature Type (Max: 200°C)

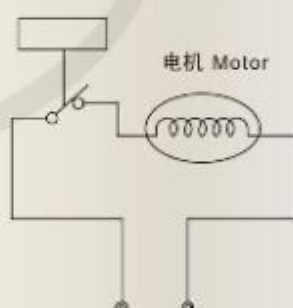
LT: 高温加长型 High Temperature Stretch Type



(结构图Chart)

灵敏度调节 Sensitivity Adjustment

接线图 Wiring Diagram



白色 White 黑色 Black
电源 Power (AC220V)



空载时接通 Connect when full-loaded
满载时接通 Connect when empty

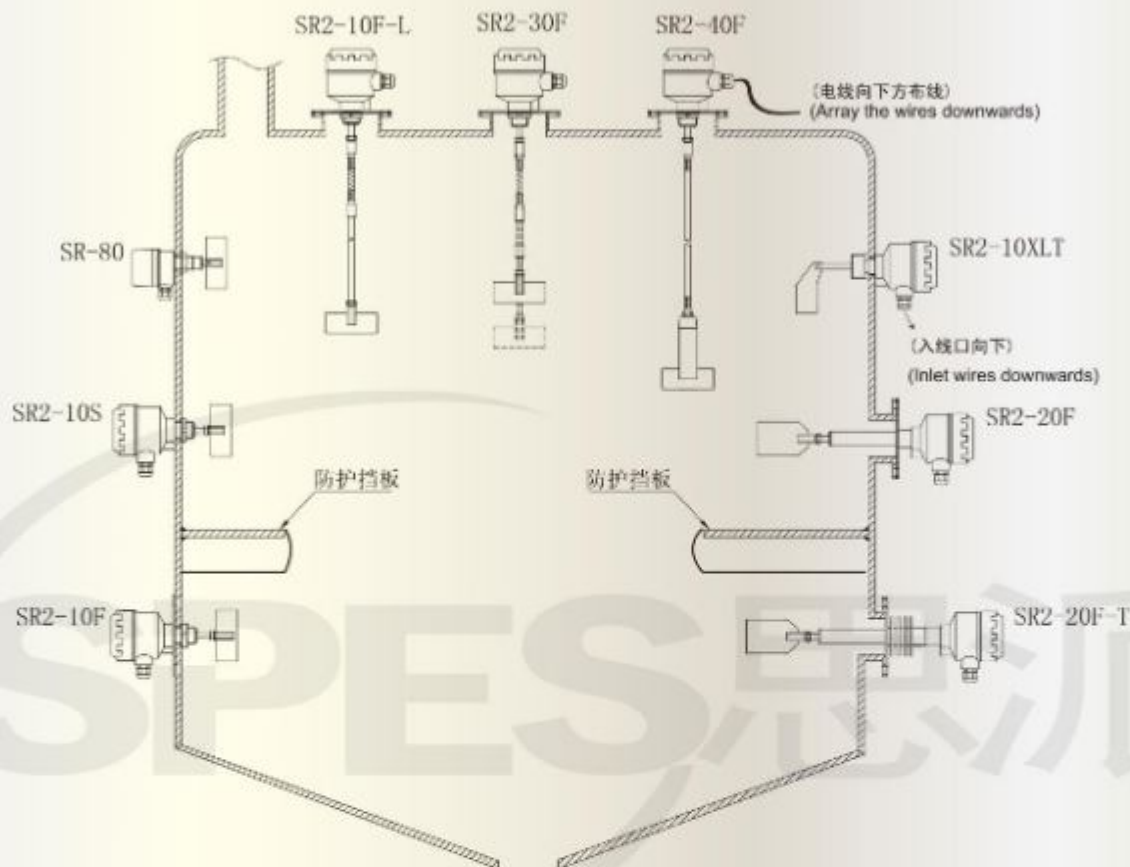
适用场所 Applicable Places

注塑机、挤出机、干燥机、包装机、混合机、自动上料系统等塑料、食品、制药、饲料、水泥多种行业设备。

Applicable to the equipment in the industry of plastic, food, medicine, feed, cement ect, such as injection molding machine, extrusion machine, drying machine, packing machine, mixer, automatic feeding system.



安装注意事项 Installation Precaution



1. 安装前请确认电源电压以免损坏电机。

Please confirm the power supply during installation so as to avoid damage to motors;

2. 安装时请勿安装在进料口下方，以避免物料直接冲击。

When install, keep away from the inlet to prevent material impact;

3. 水平安装时，请将入线口垂直向下，垂直安装时，请将外部电线向下方布线（如图），并锁紧入线口接头及接线盒上盖，以免雨水等异物渗入，影响产品的正常使用。

During horizontal installation, please make sure the wire inlet in downward, during vertical installation, please array the wires downwards (see above diagram) and fasten the inlet connector and the upper cover of the junction box, to avoid rainwater infiltration and further guarantee the switch's normal usage;

4. 水平安装时，可将料位开关水平向下倾斜15°~20°，减少物料堆积。

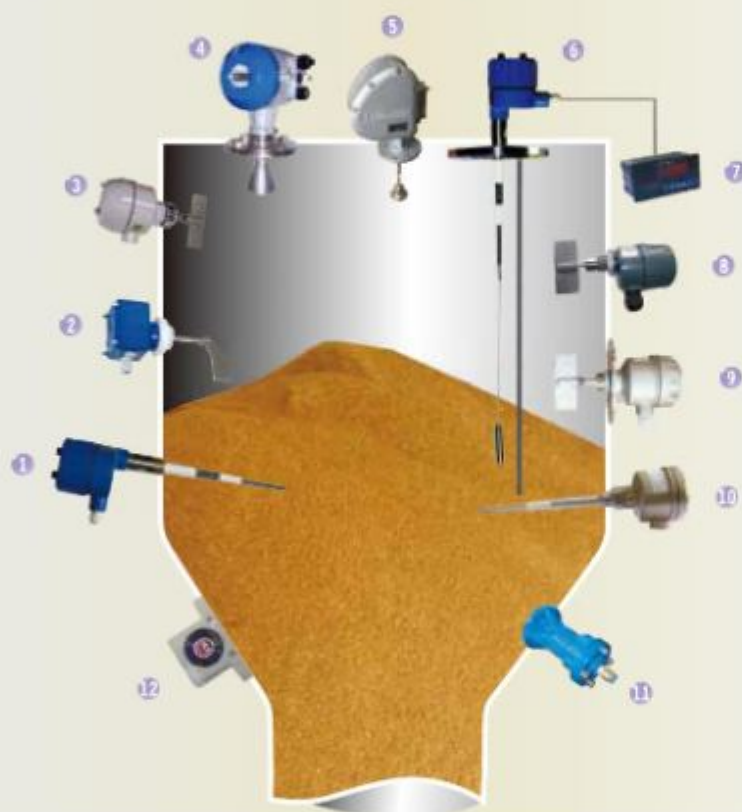
During horizontal installation, the level switch can be sloped downward at 15°~20° to reduce accumulation of materials;

5. 大料仓低位水平安装时，请加装防护挡板（如图），可用长于阻旋开关50mm的半圆管（半径约150mm），固定（焊接）在料位开关正上方250mm处。

Please install protection plate during horizontally low installation in big tank (see above diagram), it's also acceptable to weld a half-pipe (r=150mm), with the length of 50mm more than that of the switch in the position of 250mm above the level switch.



1. 流量开关
2. 压力变送器
3. 侧装浮球液位开关
4. 音叉式物位开关
5. 单点式浮球液位开关
6. 连杆浮球液位开关
7. 电缆浮球液位开关
8. 超声波料位计
9. 插入式磁性液位计
10. 投入式压力变送器
11. 射频导纳料位计
12. 磁性(翻板)液位计



1. 射频导纳物位开关
2. 阻旋式料位开关
3. 阻旋式料位开关
4. 雷达波料位计
5. 重锤连续式料位计
6. 射频导纳料位计
7. 智能数显仪表
8. 小型阻旋式料位开关
9. 阻旋式料位开关
10. 静电容物位开关
11. 空气锤
12. 空气振动器

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