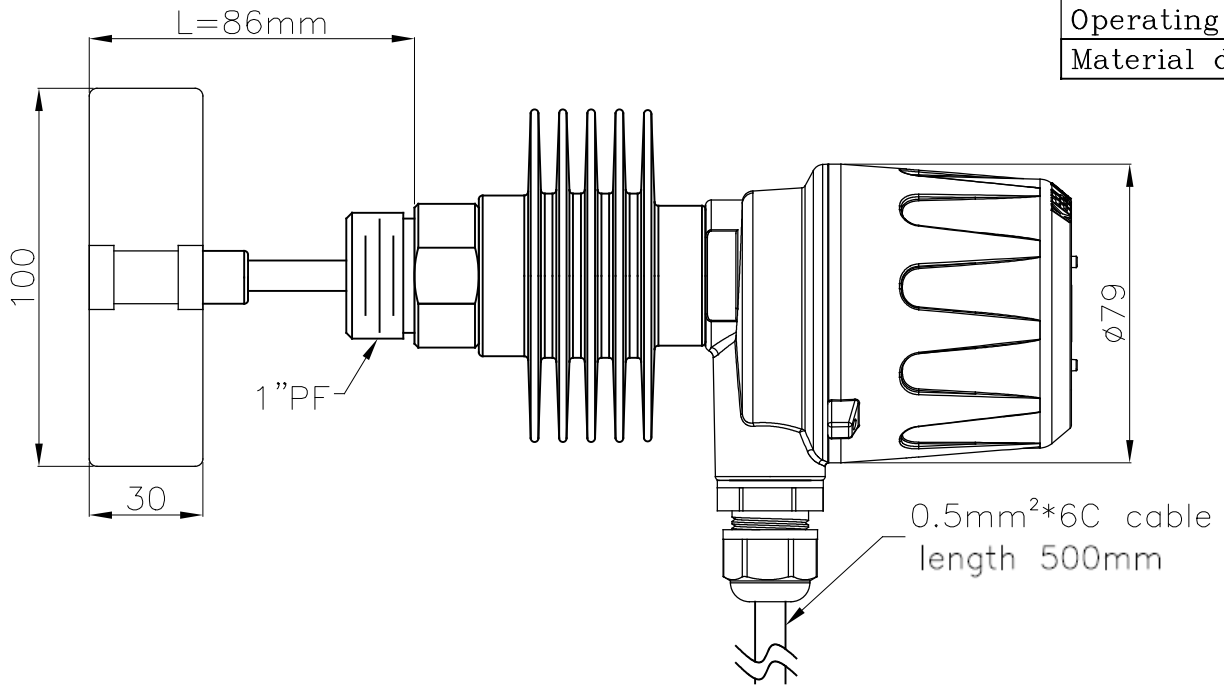
MODEL:SE3804EDRI0500

DESCRIPTION	MATERIAL & SPECIFICATION
Housing	Aluminum(IP65)
Connection size	1"PF
Paddle shapes	100*30 (SUS304)
Supply voltage	24Vdc
Power Consumption	1.5W
Contact rating	5A/30Vdc
Rotary speed	1 R.P.M.
Operating Temp.	−40~200℃
Material density	0.3g/cm³



PADDLE TYPE LEVEL SWITCH

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REV.	DATE	REVISION SECTION
.	.	.

FineTek

FineTek Co.,Ltd.
e-mail:info@fine-tek.com
http://www.fine-tek.com

SA APPROVED		APPROVED BY CLIENT		Order code:	SEX20200−AAEAAA803I00860500			
SALES		RD/PR APPROVED	Fish.Cheng	DRAWING	Shengyao	DATE: 2024.02.20	UNIT: mm SCALE: 1:2	REV. D0

www.fine-tek.com

Rotary Paddle Level Switch

FineTek

Innovation · Quality · Sharing

INTRODUCTION

WORKING PRINCIPLE

The purpose of the rotary paddle level switch is to detect the presence of solid/powdery material in most kinds of tanks, bins and containers. The unit is usually located through a bin wall at the top, middle or low level of a bin. During normal operation (no material present) a synchronous motor rotates the paddle at RPM. When this paddle rotation is impeded by material, surrounding the paddle, motor will stall and cause the Micro-switch to change state (indicating an alarm or control).

FEATURES

- Rugged sealing ring prevents dust from infiltrating the housing body along the shaft.
- Adjustable torque.
  If the rotary paddle encounters overloading, the motor will automatically shut down the motor to prevent damage to the inner mechanisms and extend motor life.
- Very suitable for small tanks and low density materials
- Adjustable and extendible shaft models available
- A wide variety of paddles are available

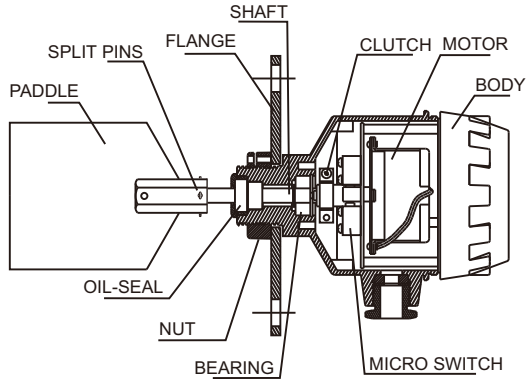
APPLICATIONS

- Plastics and synthetics
- Chemicals and fertilizer
- Pharmaceuticals
- Food and beverage,
- Agriculture and fodder mills/depots
- Cement as well as ceramics
- Power plants
- Various incinerators

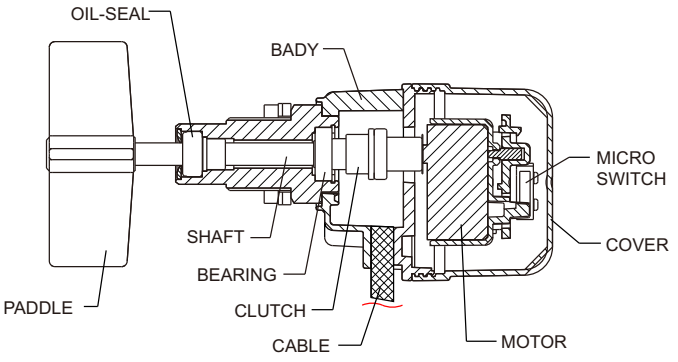
BENEFITS

- Airtight sealed device.
- Outdoor and strenuous environment application
- Stable and reliable performance.
- Lightweight and easy to install
- Practically designed to allow maintenance, checks and replacement
- Not necessary to remove the complete set from the tank.

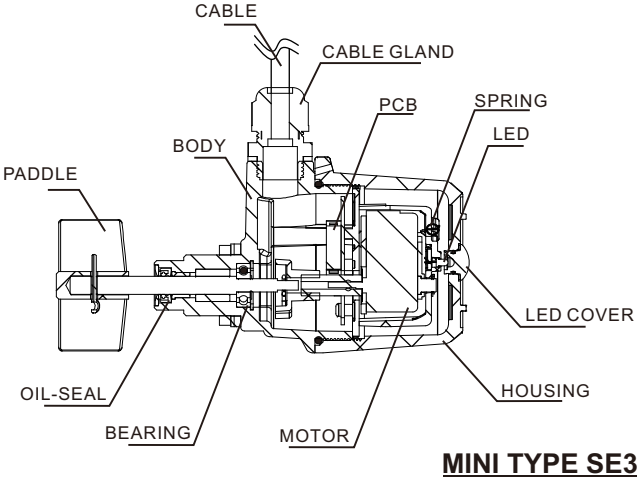
STRUCTURE



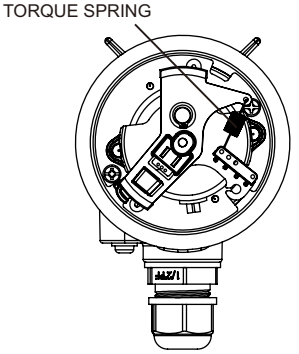
STANDARD TYPE SE1



MINI TYPE SE2



MINI TYPE SE3



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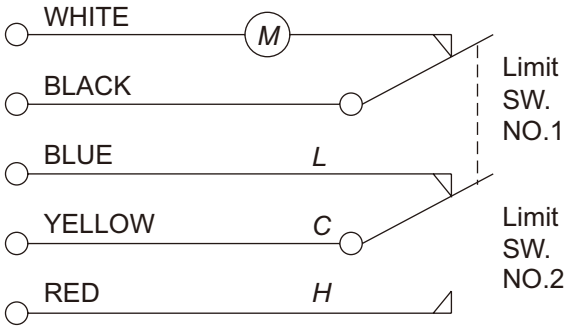
WORKING PRINCIPLE & TORQUE ADJUSTING

CONTROL SWITCH WORKING PRINCIPLE

1. A synchronous turning motor indicates the tank or container's material isn't obstructing the paddles,C & L [COM & NC] are connected.
2. When the material is obstructing the paddles, C&L [COM & NC] are disconnected, C&H [COM & NO] are connected and the motor's current is cut off.
3. When the material drops away from the paddles and the motor starts again C & L [COM & NC] connect and the cycle has begun once again.

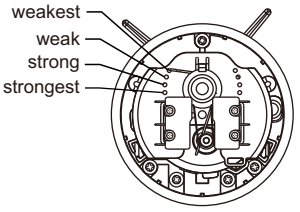


TORQUE ADJUSTING MECHANISM AND WIRING

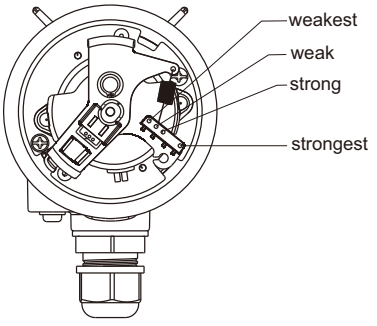
The torque spring is applied to adjust the shaft output torque. Default settings aret "weak" and can be adjusted to the customer's target based on the tank contents and S.G. (special gravity) of the material.
Higher S.G. materials require stronger torque settings. Start with high settings and slowly release the torque force until the appropriate setting is found.

- Do not tamper with the spring as it may cause the Rotary Paddle to malfunction.

Spring adjusting hole

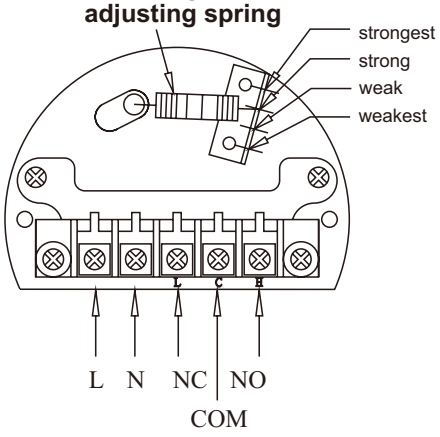


SE29



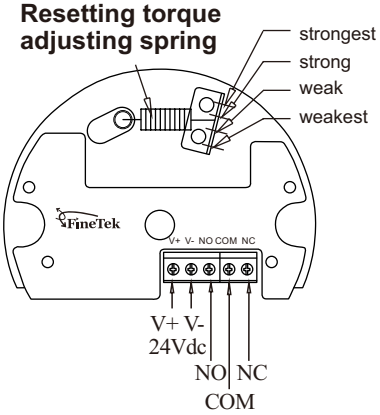
SE38

Resetting torque adjusting spring

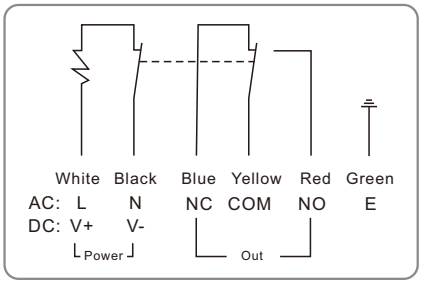


Available: SE1 (A,B,C,D)

Resetting torque adjusting spring



Available: SE1(E)



Available:SE2/SE3

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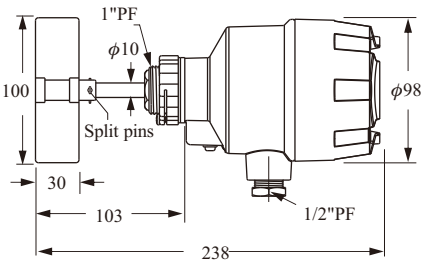
STANDARD TYPE

- **Power source :** (A)110Vac,(B)220Vac,(C)240Vac, (D)24Vac, 50/60Hz (E)24Vdc
- **Power consumption :** 3W, 11W(DC24V)
- **Contact capacity :** SPDT, 5A/250Vac
- **Rotary speed :** 1 R.P.M.
- **Insulation test voltage :** 2500V
- **Connection :** 1"PF screw or JIS 2-1/2" × 5kg/cm^2 flange
- **Protection/ material :** IP65 / ADC-12
- **Conduit :** 1/2"PF
- **Material density :** 0.5 g/cm^3

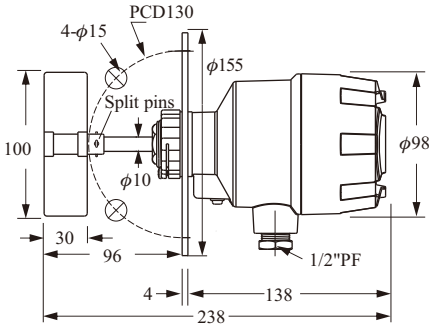
SCREW TYPE
SE110 Series
- Horizontal mounting
- Operation Temperature (-20°C ~ 70°C)
- Weight: 1.2 kg

FLANGE TYPE
SE111Series
- Horizontal mounting
- Operation Temperature (-20°C ~ 70°C)
- Weight: 1.7 kg

SE110 Series



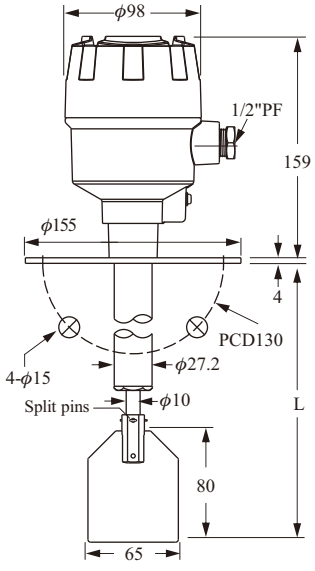
SE111 Series



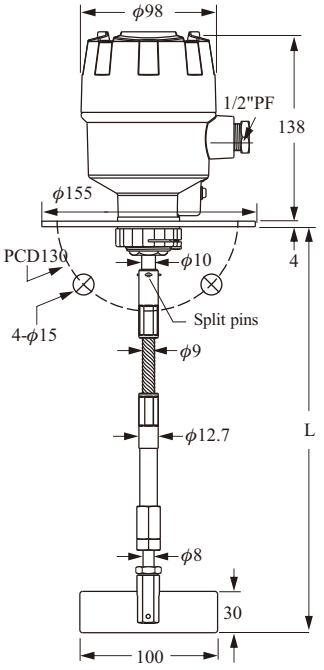
SHAFT PROTECTIVE TUBE TYPE
SE120 Series
- Horizontal /Vertical mounting
- Operation Temperature (-20°C ~ 70°C)
- Weight: 1.2 kg
- Standard Length:
  L--250mm (2.2 kg)
  L--500mm (2.5 kg)
  L--750mm (2.8 kg)
- Customized lengths available

SHAFT LENGTH ADJUSTABLE TYPE
SE130 Series
- Vertical mounting
- Operation Temperature (-20°C ~ 70°C)
- Standard Length:
  L– 460~630mm (2.5 kg)
  L– 650~1000mm (2.8 kg)
  L– 760~1200mm (3.0 kg)
- Customized lengths available

SE120 Series



SE130 Series



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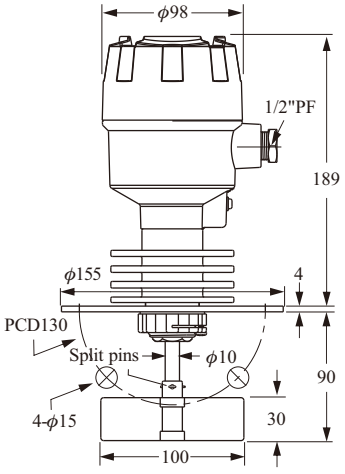
STANDARD TYPE

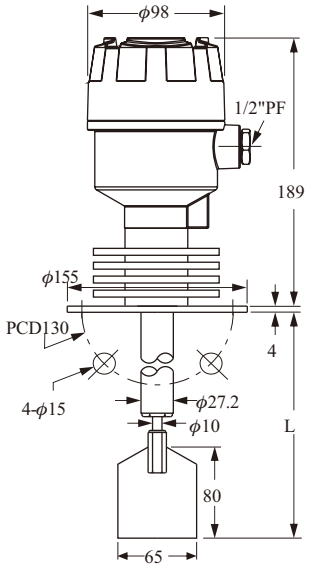
HI-TEMP TYPE
SE140 Series
- Horizontal mounting
- Temp. (-20°C ~ 200°C)
- Weight: 2.1 kg

SE140 Series



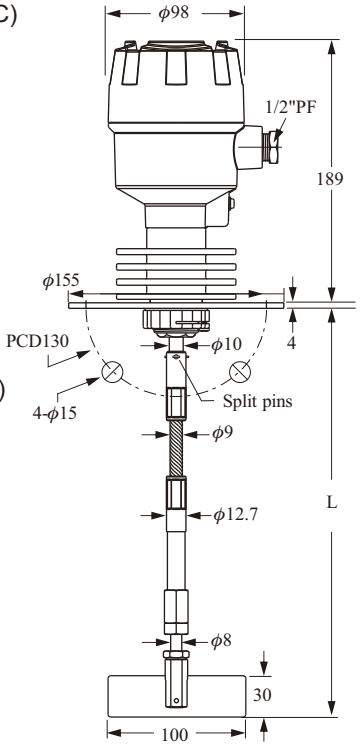
HI-TEMP TYPE
PROTECTIVE TUBE TYPE
SE141 Series
- Horizontal /Vertical mounting
- Operation Temperature (-20°C ~ 200°C)
- Standard Length (option):
  L--250mm (2.6 kg)
  L--500mm (2.9 kg)
  L--750mm (3.2 kg)
- Special length is made by order

SE141 Series



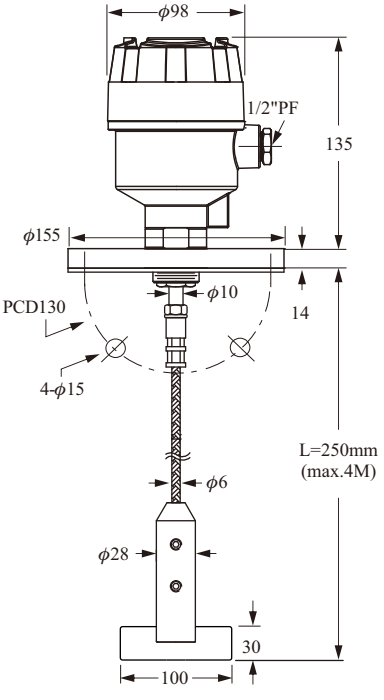
HI-TEMP SHAFT
LENGTH ADJUSTABLE TYPE
SE146 Series
- Vertical mounting
- Operation Temperature (-20°C ~ 200°C)
- Standard Length (option):
  L– 450~630mm (3 kg)
  L– 650~1000mm (3.3 kg)
  L– 760~1200mm (3.5 kg)
- Special length is made by order

SE146 Series



CABLE WIRE TYPE
SE160 Series
- Vertical mounting
- Operation Temperature (-20°C ~ 70°C)
- Standard Length (option):
  L-- 450mm (2.5 kg)
  L-- 650mm (2.8 kg)
  L-- 750mm (3 kg)
- Special length is made by order

SE160 Series



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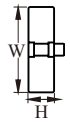
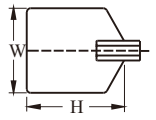
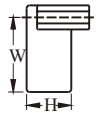
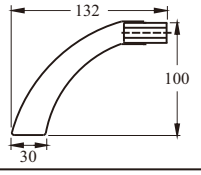
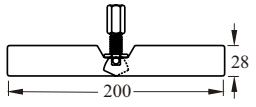
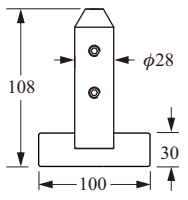
MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
SE110	SEX10000-AA
SE111	
SE120	SEX10000-AB
SE130	SEX10000-AC
SE140	SEX10200-AA
SE141	SEX10200-AB
SE146	SEX10200-AC
SE160	SEX10000-AD

New / Old paddle model comparison table

New	Figure	Dimension(WxH)	Old
B		100x30	A
C		65x80	B
D		65x120	C
E		80x80	D
F		50x30	E
G		132x100	F
H		200x28	J
K		100x108	X

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ORDER INFORMATION

SEX1 ⑤⑥ 0 0 - A ⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒

⑤⑥ Model

00：Standard
02：Hi-temperature

⑩ Construction

A：Ceneral type
B：Shafe protective tube type
C：Shafe length adjustable type
D：Cable wire type

⑪ Power supply

A：AC110V
B：AC220V
C：AC240V
D：AC24V
E：DC24V

Connection

⑫⑬

Flange item
AK：JIS-FF
AN：ANSI-RF
AS：DIN-FF
BC：Standard thin flange
(Suitable for 2-1/2"dimension)

Thread item
AA：JIS
AC：ANSI

⑭⑮

A8：1"
B1：1-1/2"
B2：2"
B4：2-1/2"

⑯⑰

01：PT male
03：PF male
07：NPT male
39：5 kg/cm^{2}x4T(Thin flange)
40：5 kg/cm^2
42：10 kg/cm^2
48：150 Lbs
49：300 Lbs
57：PN10
58：PN16

⑱ Paddle model

A：None
B：100x30(WxH)
C：65x80(WxH)
F：50x30(WxH)
G：Scimitar type132x100(WxH)
H：Folding type 200x28(WxH)
K：100x108(WxH)(Cable wire type only)

⑲⑳㉑㉒ Length

Code	Length range
0001~4000	0001~4000mm

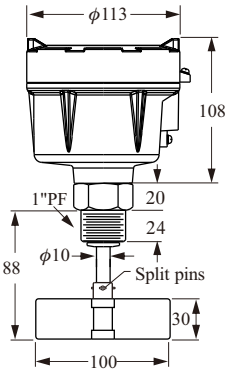
NEPSI Ex d IIC T3~T6 Gb
Ex tD A20/A21 IP65 T80°C / T95°C / T130°C / T190°C
ATEX Ⓔx II 2G Ex d IIB T3 or T4 or T5 or T6 Gb
Ⓔx II 2D Ex tb IIIC T200°C or T135°C or T100°C or T85°C Db
IECEx Ex db IIB T3 or T4 or T5 or T6 Gb
Ex tb IIIC T200°C or T135°C or T100°C or T85°C Db

EXPLOSION PROOF TYPE

- **Power source :** (A)110Vac, (B)220Vac, (C)240Vac (D)24Vac, 50/60Hz
- **Power consumption :**3W
- **Contact capacity :** SPDT, 3A/250Vac
- **Rotary speed :** 1 R.P.M.
- **Insulation test voltage :** AC 1500V × 1minute
- **Connect :** 1"PF screw or flange 1"~6" 2-1/2" × 5kg/cm^2 (std.)
- **Housing material :** AL Alloy, ADC-12
- **Conduit :** 1/2" (std.) or 3/4"NPT
- **Material density :** 0.5 g/cm^3

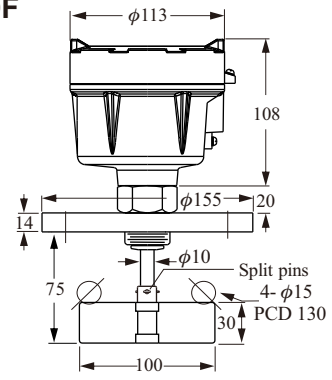
EXPLOSION PROOF CONNECTION TYPE
SE170 series

- Horizontal mounting
- Temp. (-20°C ~ 70°C)



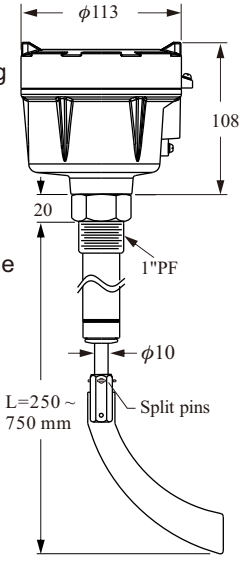
EXPLOSION PROOF FLANGE TYPE
SE171 series

- Horizontal mounting
- Temp. (-20°C ~ 70°C)



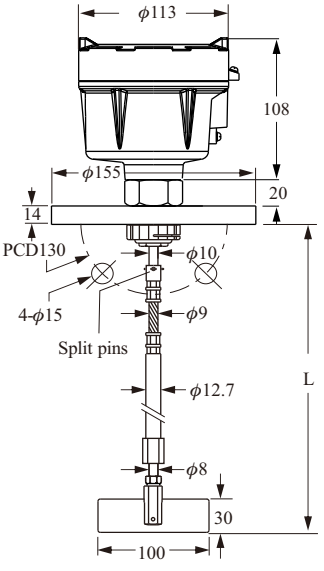
EXPLOSION PROOF SHAFT PROTECTION TYPE
SE172 series

- Horizontal /Vertical mounting
- Temp. (-20°C ~ 70°C)
- Standard Length (option):
  L-- 250mm
  L-- 500mm
  L-- 750mm
- Customized lengths available



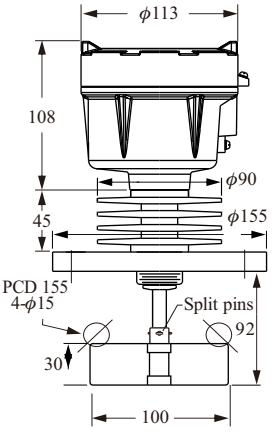
EXPLOSION PROOF ADJUSTABLE SHAFT TYPE
SE173 series

- Vertical mounting
- Temp. (-20°C ~ 70°C)
- Standard Length (option):
  L-- 450 ~630mm
  L-- 650 ~1000mm
  L-- 760 ~1200mm
- Special length is made by order



EXPLOSION PROOF HI-TEMP TYPE
SE174 series

- Horizontal mounting
- Temp. (-20°C ~ 200°C)



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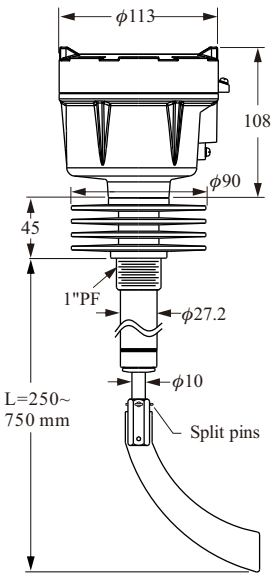
NEPSI Ex d IIC T3~T6 Gb
Ex tD A20/A21 IP65 T80°C / T95°C / T130°C / T190°C
ATEX Ⓔx II 2G Ex d IIB T3 or T4 or T5 or T6 Gb
Ⓔx II 2D Ex tb IIIC T200°C or T135°C or T100°C or T85°C Db
IECEx Ex db IIB T3 or T4 or T5 or T6 Gb
Ex tb IIIC T200°C or T135°C or T100°C or T85°C Db

EXPLOSION PROOF TYPE

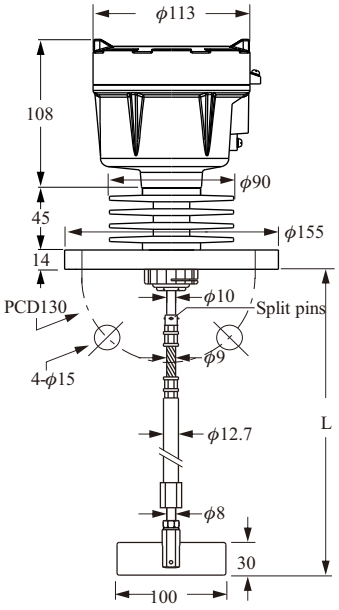
EXPLOSION PROOF HI-TEMP SHAFT PROTECTIVE TUBE TYPE
SE175 Series

- Horizontal /Vertical mounting
- Temp. (-20°C ~ 200°C)
- Special length is made by order



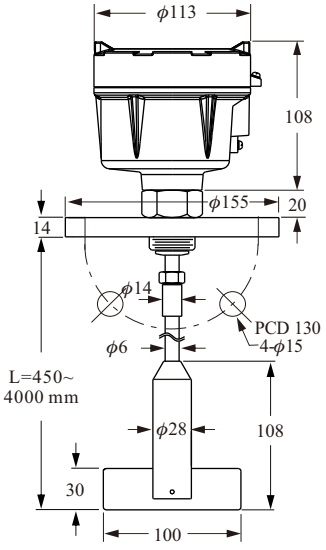
EXPLOSION PROOF HI-TEMP ADJUSTABLE SHAFT TYPE
SE176 Series

- Vertical mounting
- Temp. (-20°C ~ 200°C)
- Special length is made by order



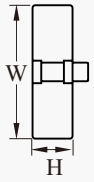
EXPLOSION PROOF CABLE WIRE TYPE
SE177 Series

- Vertical mounting
- Temp. (-20°C ~ 70°C)
- Special length is made by order



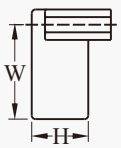
■ Paddle Introduction

A



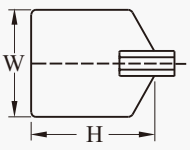
(A) 100x30 (WxH), Min. fixed hole diameter size ϕ90mm.

E



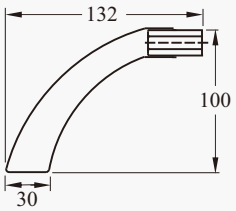
(E) 50x30 (WxH), Suitable for high S.G. raw materials. Use a small size paddle to decrease the impact of material falling directly on paddle.

B,C,D



(B) 65x80 (WxH), Directly mounted into 2-1/2" fixed hole.
(C) 65x120 (WxH), Directly mounted into 2-1/2" fixed hole.
(D) 80x80 (WxH)

F

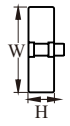
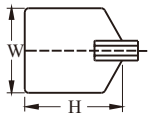
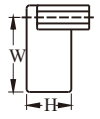
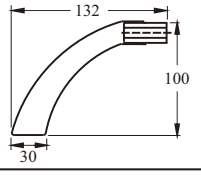
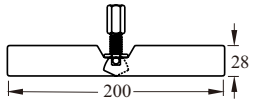
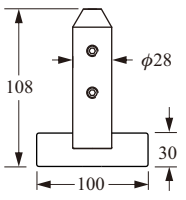


(F) Scimitar model paddle, Screw tightly on the 1" diameter fixed hole, It Is easier to mount and dismount.

MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
SE170	SEX300□□-AA
SE171	
SE172	SEX300□□-AB
SE173	SEX300□□-AC
SE174	SEX302□□-AA
SE175	SEX302□□-AB
SE176	SEX302□□-AC
SE177	SEX300□□-AD

New / Old paddle model comparison table

New	Figure	Dimension(WxH)	Old
B		100x30	A
C		65x80	B
D		65x120	C
E		80x80	D
F		50x30	E
G		132x100	F
H		200x28	J
K		100x108	X

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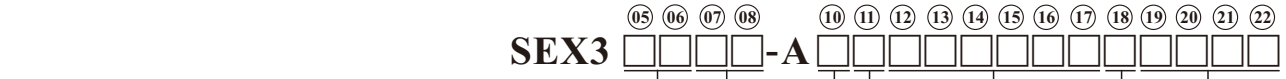
ORDER INFORMATION



⑤⑥ Model

00：Standard
02：Hi-temperation

⑦⑧ Certification

1C：ATEX-Exd
2C：IECEx-Exd
5C：TS-Exd
7C：NEPSI-Exd

⑩ Construction

A：Ceneral type
B：Shafe protective tube type
C：Shafe length adjustable type
D：Cable wire type

⑪ Power supply

A：AC110V
B：AC220V
C：AC240V
D：AC24V

Connection

⑫⑬

Flange item
AK：JIS-FF
AN：ANSI-RF
AS：DIN-FF

Thread item
AA：JIS
AC：ANSI

⑭⑮

A8：1"
B1：1-1/2"
B2：2"
B4：2-1/2"

⑯⑰

01：PT male
03：PF male
07：NPT male
40：5 kg/cm^2
42：10 kg/cm^2
48：150 Lbs
49：300 Lbs
57：PN10
58：PN16

⑱ Paddle model

A：None
B：100x30(WxH)
C：65x80(WxH)
F：50x30(WxH)
G：Scimitar type 132x100(WxH)
K：100x108(WxH)(Cable wire type only)

⑲⑳㉑㉒ Length

Code	Length range
0001~4000	0001~4000mm

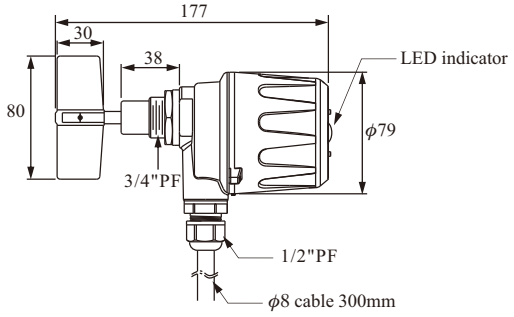
MINI TYPE(ALUMINUM ALLOY COVER)

Housing cover code:
0: Aluminum cover
1: Aluminum cover with LED lamp

- **Power source :** (A)110Vac,(B)220Vac,(C)240Vac, (D)24Vac, 50/60Hz,(E)24Vdc
- **Power consumption :** 1.5W
- **Contact capacity :** 5A/250Vac, 5A/30Vdc
- **Rotary speed :** 1R.P.M.
- **IP rating :** IP65
- **Housing material :** Aluminum alloy
- **Ambient temperature :** -40℃ ~ 85℃
- **Cable length :** 300mm (available for custom length)
- **Material density :** 0.3 g/cm^3
- **Display status :** Green(Working), Red(Stopped)

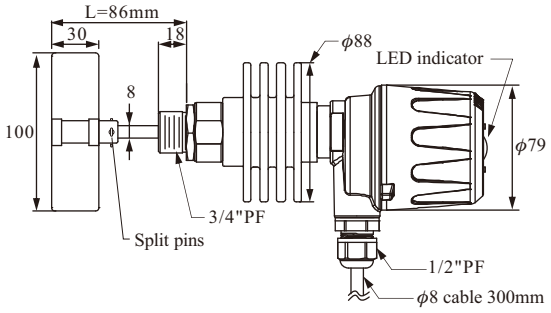
STANDARD TYPE
SE38□0 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: PC



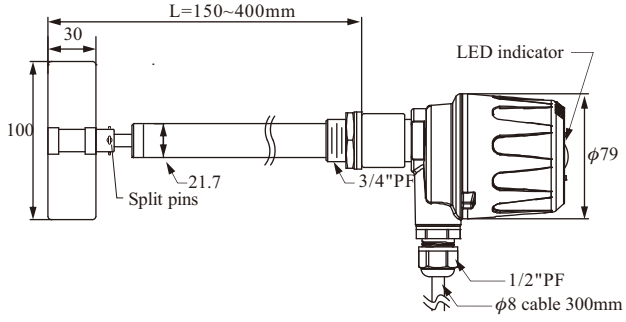
HIGH TEMPERATURE TYPE
SE38□4 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



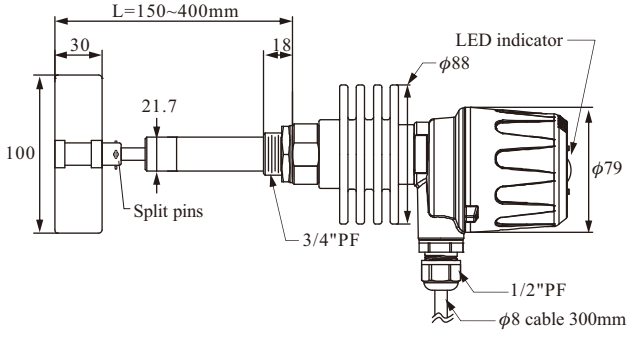
SHAFT PROTECTIVE TUBE TYPE
SE38□2 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: SUS304



HIGH TEMPERATURE SHAFT PROTECTIVE TUBE TYPE
SE38□5 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



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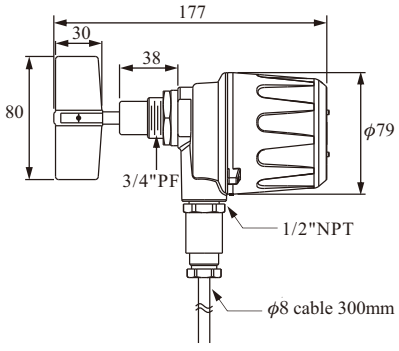
MINI TYPE(EXPLOSION PROOF)

NEPSI DIP A20/21 T., T3~T6 IP65

- **Power source :** (A)110Vac,(B)220Vac,(C)240Vac, (D)24Vac, 50/60Hz,(E)24Vdc
- **Power consumption :** 1.5W
- **Contact capacity :** 5A/250Vac, 5A/30Vdc
- **Rotary speed :** 1R.P.M.
- **IP rating :** IP65
- **Housing material :** Aluminum alloy
- **Ambient temperature :** -40℃ ~ 85℃
- **Cable length :** 300mm (available for custom length)
- **Material density :** 0.3 g/cm^3

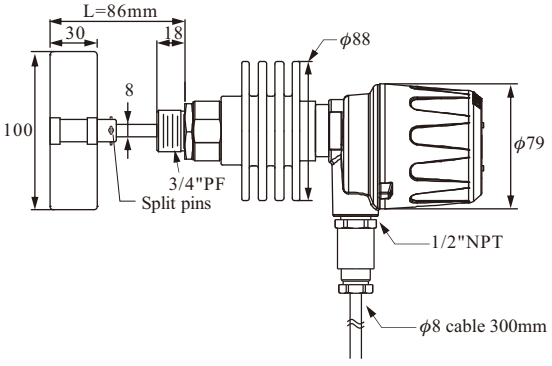
STANDARD TYPE
SE3700 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: PC



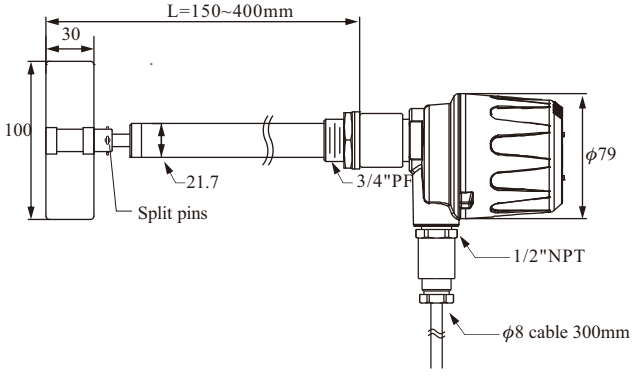
HIGH TEMPERATURE TYPE
SE3704 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



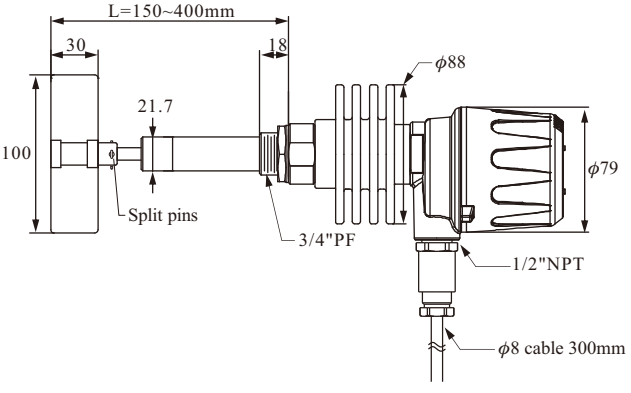
SHAFT PROTECTIVE TUBE TYPE
SE3702 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: SUS304



HIGH TEMPERATURE SHAFT PROTECTIVE TUBE TYPE
SE3705 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



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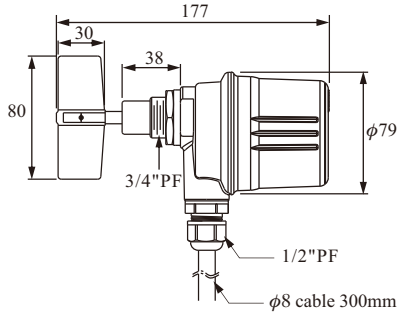
MINI TYPE(PLASTIC COVER)

- **Power source :** (A)110Vac,(B)220Vac,(C)240Vac, (D)24Vac, 50/60Hz,(E)24Vdc
- **Power consumption :** 1.5W
- **Contact capacity :** 5A/250Vac, 5A/30Vdc
- **Rotary speed :** 1R.P.M.
- **IP rating :** IP65
- **Housing material :** Plastic cover
- **Ambient temperature :** -40℃ ~ 85℃
- **Cable length :** 300mm (available for custom length)
- **Material density :** 0.3 g/cm^3

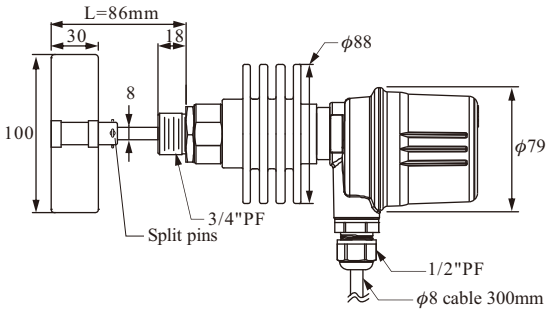
STANDARD TYPE
SE3820 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: PC



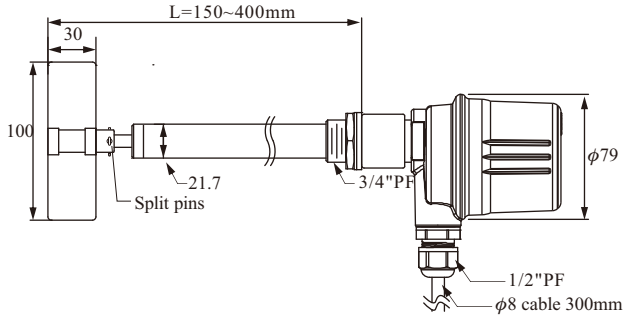
HIGH TEMPERATURE TYPE
SE3824 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



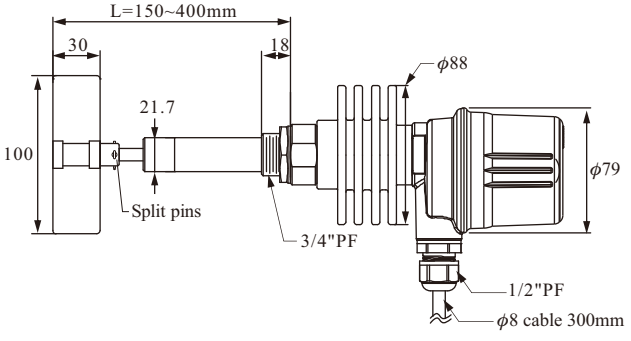
SHAFT PROTECTIVE TUBE TYPE
SE3822 Series

- Operation temperature: -40°C ~ 85°C
- Paddle material: SUS304



HIGH TEMPERATURE SHAFT PROTECTIVE TUBE TYPE
SE3825 Series

- Operation temperature: -40°C ~ 200°C
- Paddle material: SUS304



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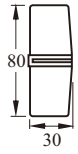
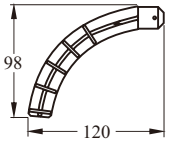
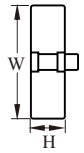
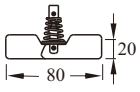
MODEL NUMBER / ORDER CODE COMPARISON TABLE

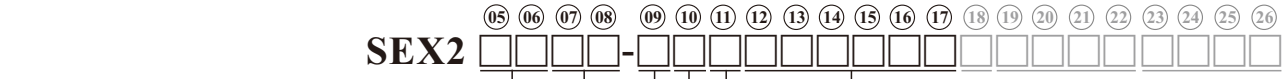
Model Number	Order Code
SE3700	SEX2007D-AA
SE3702	SEX2007D-AB
SE3704	SEX2027D-AA
SE3705	SEX2027D-AB
SE3800	SEX20000-AA
SE3810	SEX20000-BA
SE3820	SEX20000-CA
SE3802	SEX20000-AB

Model Number	Order Code
SE3812	SEX20000-BB
SE3822	SEX20000-CB
SE3804	SEX20200-AA
SE3814	SEX20200-BA
SE3824	SEX20200-CA
SE3805	SEX20200-AB
SE3815	SEX20200-BB
SE3825	SEX20200-CB

New / Old paddle model comparison table

New	Figure	Dimension(WxH)	Old
G		80x30	G
H		98x120	H
I		100x30	I
K		80x20	K

ORDER INFORMATION



⑤⑥ Model

00：Standard
02：Hi-temperation

⑦⑧ Certification

00：None
7D：NEPSI-Exd
(The housing select A:Alumium cover only)

⑨ Housing

A：Aluminum cover
B：Aluminum cover with LED lamp
C：Plastic cover

⑩ Construction

A：Ceneral type
B：Shafe protective tube type

⑪ Power supply

A：AC110V
B：AC220V
C：AC240V
D：AC24V
E：DC24V

Connection

⑫⑬

Flange item
AK：JIS-FF
AN：ANSI-RF
AS：DIN-FF

Thread item
AA：JIS
AC：ANSI

⑭⑮

A7：3/4"
A8： 1"
B1：1-1/2"
B2：2"

⑯⑰

01：PT male
03：PF male
07：NPT male
40：5 kg/cm^2
42：10 kg/cm^2
48：150 Lbs
49：300 Lbs
57：PN10
58：PN16

(Next page)

ORDER INFORMATION

⑱ Paddle model

A：None
G：PC; Cross type
H：PC; Scimitar type 120x98(WxH)
I ：SUS; 100x30(WxH)
K：SUS; Folding type 80x20(WxH)

⑲⑳㉑㉒ Length

Code	Length range
0001~400	0001~400mm

㉓㉔㉕㉖ Cable wire length

Code	Length range
0300~5000	0300~5000mm

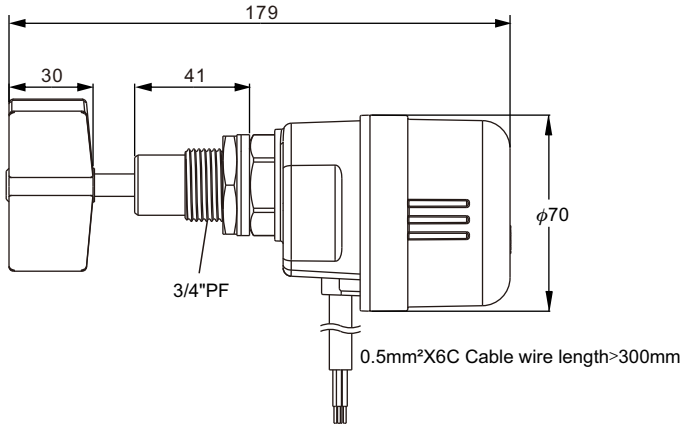
MINI TYPE(ECONOMY)

- **Power source :** (A)110Vac,(B)220Vac, (D)24Vac, 50/60Hz
- **Power consumption :** 1.5W
- **Contact capacity :** 3A/250Vac, 3A/30Vdc
- **Rotary speed :** 1R.P.M.
- **IP rating :** IP65
- **Housing material :** Plastic cover
- **Ambient temperature :** -20℃ ~ 80℃
- **Cable length :** 300mm (available for custom length)
- **Material density :** 0.3 g/cm^3

STANDARD

SE290 A/B/D

- Operation temperature: -20°C ~ 80°C
- Paddle material: PC



MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
SE290A	SEX40000-CAA
SE290B	SEX40000-CAB
SE290C	SEX40000-CAC
SE290D	SEX40000-CAD

ORDER INFORMATION

⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒

SEX4 0 0 0 0 - C A □ □ □ □ □ □ □ □ □ □ □ □

⑪ Power supply

A：AC110V
B：AC220V
D：AC24V

Connection

⑫⑬

Flange item
AK：JIS-FF
AN：ANSI-RF
AS：DIN-FF

Thread item
AA：JIS
AC：ANSI

⑭⑮

A7：3/4"
A8： 1"
B1：1-1/2"
B2：2"

⑯⑰

01：PT male
03：PF male
07：NPT male
40：5 kg/cm^2
42：10 kg/cm^2
48：150 Lbs
49：300 Lbs
57：PN10
58：PN16

⑱ Paddle model

A：None
G：PC; Cross type
H：PC; Scimitar type 120x98(WxH)
I ：SUS; 100x30(WxH)
K：SUS; Folding type 80x20(WxH)

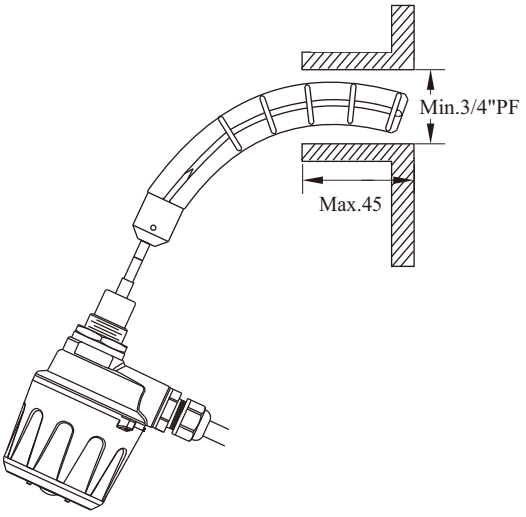
⑲⑳㉑㉒ Cable wire length

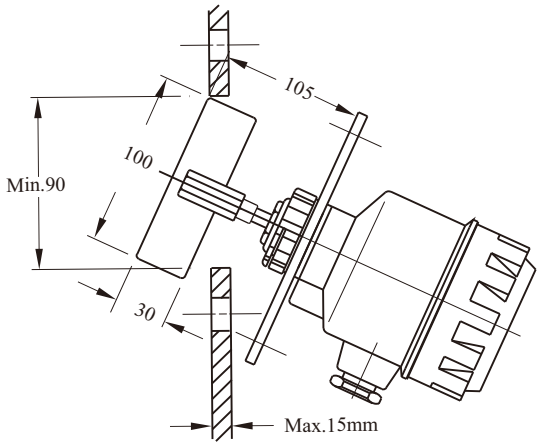
Code	Length range
0300~5000	0300~5000mm

MOUNTING EXAMPLES

Regular models such as the SE11should be installed directly on the tank side.
Mount at a 35° angle the blade through the tank opening or hole sliding the blade in first.

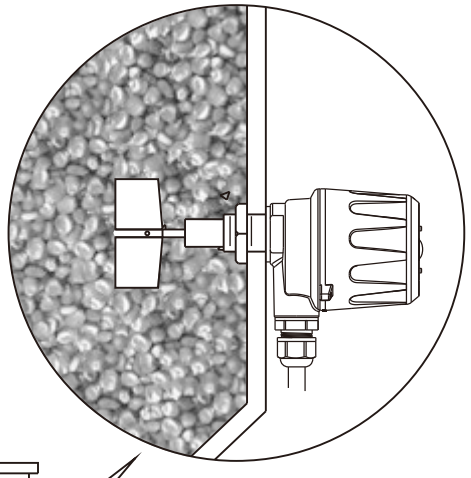
* The SE170 series minimum hole size should be 95mm in diameter.
The scimitar model is directly installed on the tank wall method as shown below.
(Assuming an arc-shaped tank with a 3/4 "connection) and then screwing it tight.

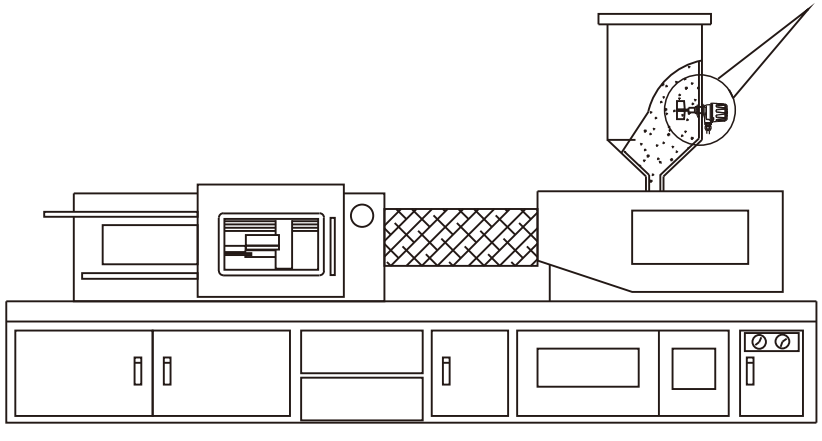




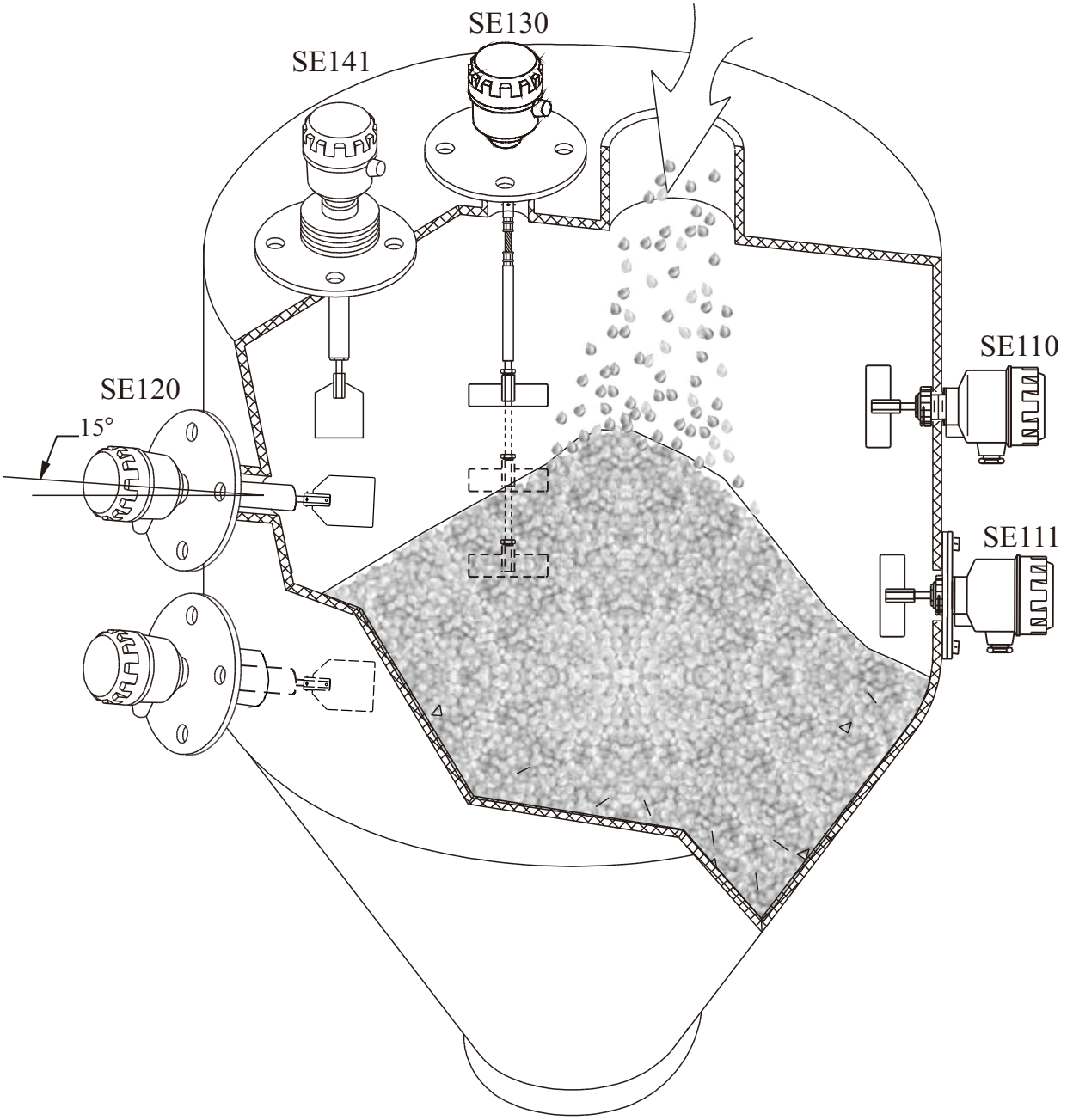
INJECTION MOLDING MACHINES

Injection Molding Machine usually require the SE38.
Install the Rotary Paddle through a 20mm diameter hole on the tank/silo.
Remove the paddle from the device by taking out the fastening pin.
Insert the SE38 through the mounting hole and tighten it.
After which, secure the Paddle to the SE38 by locking it to the shaft with the pin.
Keep in mind to 'widen' the opening of the pin in order to secure it.





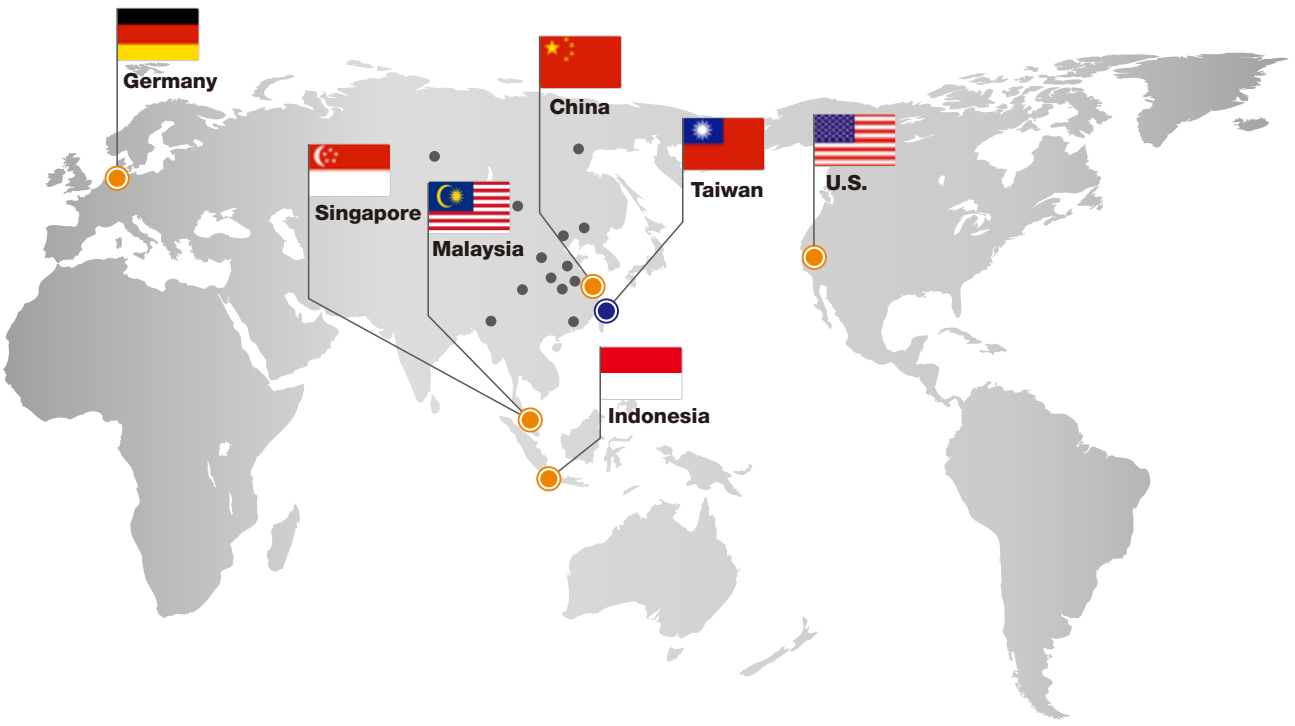
EXAMPLES



INSTALLATION NOTICES

1. Side mount the sensor at a downward angle of 15° ~20° to decrease the material inflow impact.
2. For high temperature application (more than 70°C), please use the SE14□ Series.
3. For SE110~SE140 using a 1" inlet, please apply the scimitar model and screw directly.
4. For SE130, SE146 series have flexible and extendible shafts.
5. Please ensure the lead wire enters the housing from the bottom and the nuts are fastened to secure the device.

Global Network



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