

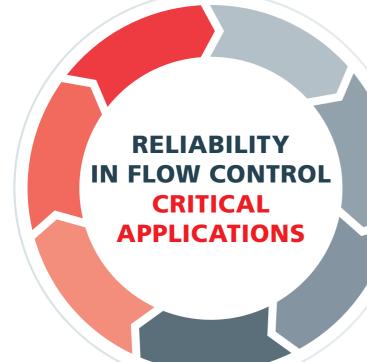


# **Limit Switch** Boxes



# rotork

# **Keeping the World Flowing**





# **Reliable operation** when it matters

Assured reliability for critical applications and environments.

Whether used 24/7 or infrequently, Rotork products will operate reliably and efficiently when called upon.

# **Quality-driven** global manufacturing

Products designed with 60 years of industry and application knowledge.

Research and development across all our facilities ensures cutting edge products are available for every application.

# **Customer-focused service** worldwide support

Solving customer challenges and developing new solutions.

From initial enquiry through to product installation, longterm after-sales care and Client Support Programmes (CSP).

# Low cost of ownership

Long-term reliability prolongs service life.

Rotork helps to reduce long term cost of ownership and provides greater efficiency to process and plant.

# 











M	odel	SP	SM	SB	SF	SS	HW	SX	SH
Application	Industry			<b>9</b>	<b>6</b>	<b>6</b> 6 6	<b>6</b>	<b>6</b> 6 6	<b>6</b> 6 6
	Valve Type	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves
Material	Housing	Glass reinforced plastic	Nickel plated aluminium	Copper free aluminium	Copper free aluminium	316 stainless steel	Aluminium	Aluminium	Aluminium
	Cover	Polycarbonate	Polycarbonate	Polycarbonate	Aluminium	316 stainless steel	Aluminium	Aluminium	Aluminium
	IP Rating	IP 65	IP 65	IP 67	IP 66 / 67 IP 67M	IP 66 / 67 IP 67M	IP 66 / 67	IP 66 / 67	IP 66 / 67
ation	SIL Rating up to:	SIL2	SIL2	SIL3	SIL3	SIL3	SIL3	SIL3	SIL3
	ATEX, IECEX option	Exia IIC T6	Exia IIC T6	Exia IIC T6	Exia IIC T6	Exia IIC T6	-	Exd IIB T6	Exd IIB+H2 T6
	cULus option	-	-	Safe area or Class1/2 Div2	Safe area or Class1/2 Div2	Safe area or Class1/2 Div2	Safe area or Class1/2 Div2	Class 1/2 Div 1/2	Class 1/2 Div 1/2
Certification	EAC option	V	V	~	~	~	V	V	V
	CCOE option	V	V	~	~	~	-	V	V
	INMETRO option	-	-	-	-	-	-	V	V
	NEPSI option	-	-	-	-	-	-	-	-
ator	3D	V	V	~	~	•	V	V	V
Visual Position Indicator	Flat	V	V	~	~	•	V	~	~
al Positi	Multi Port Valves	-	-	~	~	•	V	~	~
Visu	None	-	-	-	<b>~</b>	•	V	-	-
	Electro mechanic	V	~	~	~	~	V	~	V
lback	Magnetic	V	~	~	~	~	V	V	~
Electrical Feedback	Inductive	V	~	•	•	•	V	~	V
Electri	4-20 mA	-	-	~	~	•	~	~	V
	Communication Protocols	-	-	~	~	~	V	V	V
	Twin Shaft Design	-	-	~	~	•	V	V	V
Features	Temp. Max Range	-20 to +80 °C (-4 to +176 °F)	-20 to +80 °C (-4 to +176 °F)	-30 to +80° C (-22 to +176 °F)	-60 to +105 °C (-76 to +221 °F)	-60 to +105 °C (-76 to +221 °F)	-60 to +105 °C (-76 to +221 °F)	-20 to +105 °C (-4 to +221 °F)	-20 to +105 °C (-4 to +221 °F)
	Integrated Mounting Kit	V	V	-	-	-	V	-	-

# Product Overview Chart —







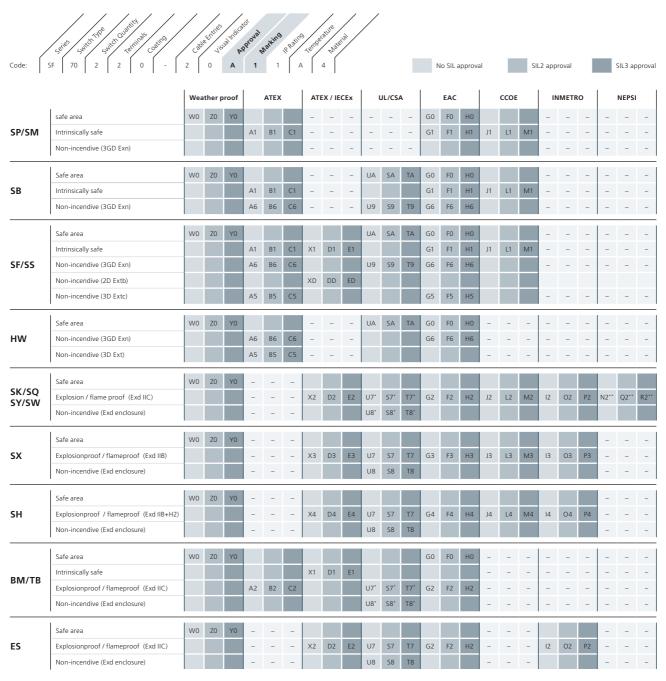




M	odel	SK	SQ	SY	sw	SE	ES	ВМ	ТВ
								A STATE	Consultation of the same of th
Application	Industry	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b> 6 6	<b>6</b>	<b>6</b> 6 6	<b>6</b>
	Valve Type	Rotary Valves	Rotary Valves	Rotary Valves	Rotary Valves	Linear Valves	Manual Valves	External Switches General Purpose	External Switches General Purpose
erial	Housing	Aluminium	316L stainless steel	Copper free aluminium	316 stainless steel	Copper free aluminium or 316 stainless steel	Copper free aluminium or 316 stainless steel	316 stainless steel	316 stainless steel or aluminium
Material	Cover	Aluminium	316L stainless steel	Copper free aluminium	316 stainless steel	Copper free aluminium or 316 stainless steel	Copper free aluminium or 316 stainless steel	316 stainless steel	316 stainless steel or aluminium
	IP Rating	IP 66 / 67 optional IP68	IP 66 / 67 optional IP68	IP 66 / 68	IP 66 / 68	IP67 IP 67M	IP 68	IP 68 subsea option available	IP 68
	SIL Rating up to:	SIL3	SIL3	SIL3	SIL3	SIL3	SIL3	SIL3	SIL3
	ATEX, IECEX option	Exd IIC T6	Exd IIC T6	Exd IIC T6	Exd IIC T6	-	Exd IIC T6	Exd IIC T6 Exia IIC T4	Exd IIC T6
cation	cULus option	Class 1/2 Div 1/2	-	Class 1/2 Div 1/2	Class 1/2 Div 1/2	-	Class 1/2 Div 1/2	Class 1/2 Div 1/2	
Certification	EAC option	V	~	V	~	V	V	V	V
	CCOE option	V	~	V	V	-	-	-	-
	INMETRO option	V	~	V	V	-	V	-	-
	NEPSI option	-	-	V	~	-	-	-	-
ator	3D	V	~	V	V	-	-	-	-
Visual Position Indicator	Flat	V	~	V	V	-	-	-	-
al Positic	Multi Port Valves	V	~	V	V	-	-	-	-
Visus	None	-	-	-	-	V	V	V	V
	Electro mechanic	V	~	V	~	-	-	-	-
lback	Magnetic	V	~	V	~	V	V	V	V
Electrical Feedback	Inductive	V	~	V	V	V	-	-	-
Electri	4-20 mA	-	-	V	~	-	-	-	-
	Communication Protocols	-	-	V	V	-	-	-	-
	Twin Shaft Design	V	V	V	V	-	-	-	-
Features	Temp. Max Range	-55 to +105 °C (-67 to +221 °F)	-55 to +105 °C (-67 to +221 °F)	-60 to +105 °C (-76 to +221 °F)	-60 to +105 °C (-76 to +221 °F)	-50 to +105 °C (-58 to +221 °F)	-65 to +150 °C (-85 to +302 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)
	Integrated Mounting Kit	Optional	Optional	-	-	-	-	-	-

# **Approvals and Marking**

#### Code selection guide



<sup>\*</sup> Excluding SQ and TB series

<sup>\*\*</sup> SY SW series only

## **SP - SM** limit switch box series

Compact limit switch box for industrial, water treatment and light duty applications.

#### **Features**

- Integrated mounting kit for NAMUR pattern
- Corrosion free glass reinforced plastic enclosure on SP series
- Nickel plated aluminium body on SM series
- 1 cable entry (SP) or 2 cable entries (SM) either metric or imperial
- Multiple indicator options
- Easy wiring through the terminal PCB board

#### **Approvals**

#### ATEX, EAC, CCOE:

Ex II 2GD Ex ia IIC T4/T5/T6 Ex ia IIIB T44 °C......T108 °C Db IP6\*

Ta: -20 °C ≤ Ta ≤ 80 °C

**SIL certificate:** Up to SIL 2 certified by TÜV

**Protection rating: IP 65** 

IP 67 on request Nema 4 4X on request

#### Temperature:

-20 to +80 °C (-4 to +176 °F) standard temperature range

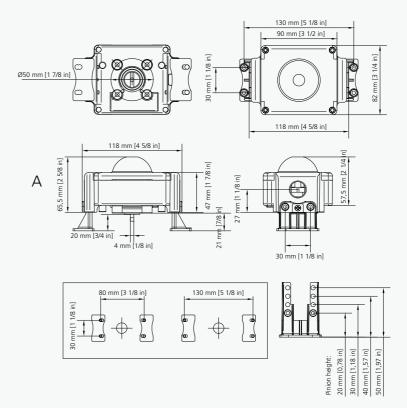


#### SP limit switch box

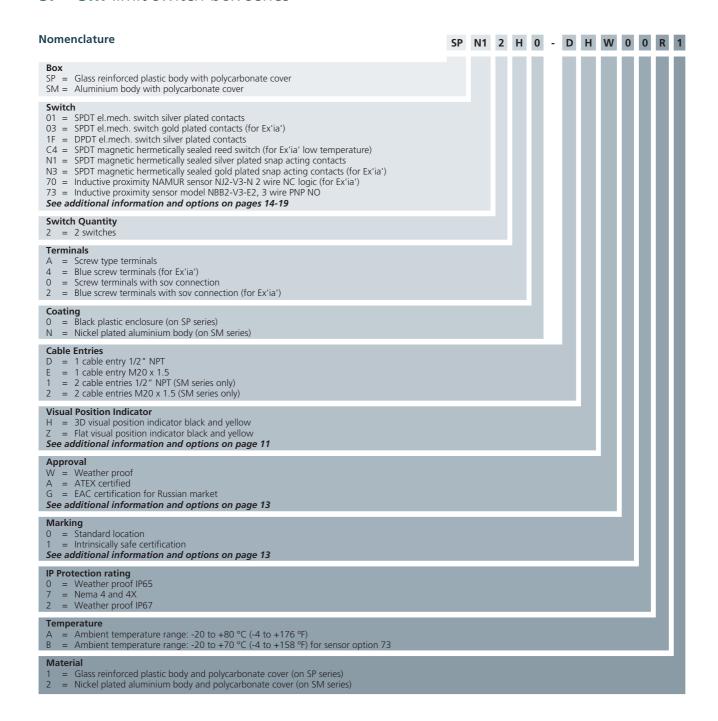


## SM limit switch box





## **SP - SM** limit switch box series



## **SX - SH** limit switch box series

Limit switch box designed for explosionproof applications.

#### **Features**

- Twin shaft design
- Metallic self lubricating bushings
- Aluminium enclosure with thick protective powder coating
- Up to 3 cable entries either metric or imperial
- Multiple indicator options
- Easy wiring through the terminal PCB board

#### **Approvals**

#### ATEX, IECEX, EAC, CCOE, INMETRO:

Ex II 2GD Ex db IIB T4/T5/T6 Gb (SX series) Ex II 2GD Ex db IIB + H2 T4/T5/T6 Gb (SH series) Ex tb IIIC T135/T100/T85°C Db Ta: -20 °C  $\leq$  Ta  $\leq$  105 °C / 75 °C / 60 °C

#### UL:

Class I Division 1 Groups C, D Division 2 Groups A, B, C, D Class II Division 1 Groups E, F, G Division 2 Groups F, G

SIL certificate: Up to SIL 3 certified by TÜV

**Protection rating:** IP 66 / 67

Nema 4 4X on request

Temperature:

-20 to +80 °C (-4 to +176 °F) standard temperature range







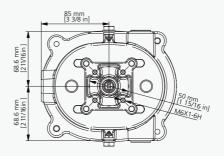


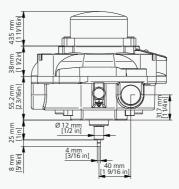


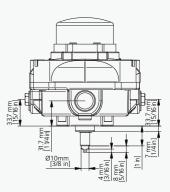


## **SX limit switch box**









### **SX - SH** limit switch box series

