



### Features:

- Used for Roto-meters, Direction sensing, Level Sensing etc.
- High Counting speed
- It senses ferrous object/magnets

### Technical Specification:

- Diameter: M8, M12, M18, M30
- Sensing Distance: 10-50 mm
- Basic Connection: 2 wire / 3 wire
- Output Logic: NO / NC / RO / PNP-NO / PNP-NC / NPN-NO / NPN-NC
- Supply Voltage: 24/110/240 V AC, 5/24/30/48/65/110/220 V DC
- Mounting type: Flush / Non-Flush
- Load Current: 500 mA (max.)

# MAGNETIC PROXIMITY SWITCHES / SPEED SENSORS

Series SW 705 / SW 715 / MSP 706/MSP /716 MSP 707/MSP 717

The series SW 705 Magnetic Proximity Switches are available in two broad categories.

- **Position sensing switches with Reed Element.**
- **2-Wire / 3-Wire Magnetic pick-up Sensors.**

These switches are available in different shapes and sizes. Tubular models are available in Brass/SS enclosures in sizes M12, M18 and M30 and above.

## SWITCHES WITH REED ELEMENT

These switches are used only for position sensing application. These incorporate a hermetically sealed sensitive reed element. The object should necessarily be a magnet. These are provided with 2-core built-in cable. The output is a potential free contact and can switch external load directly.

The switching voltage and contact rating depends upon switch size. Special models of latching type switches are available for direction sensing applications.

## GENERAL SPECIFICATIONS

Sensing Range: 10 to 50 mm depending upon Strength of object magnet.

Termination : Integrated 2/3-core cable

Load : 500 mA Max.

Object : Magnet

Operating Temp : 70°C / 200°C

Protection Grade : IP-67

## APPLICATIONS

Position sensing in hydraulic cylinders,

Roto-meters,

Direction sensing applications

Level sensing of liquids

## MAGNETIC PICK-UP SENSORS

(Series MSP 706/MSP 716)

## HALL EFFECT SENSORS

(Series MSP 707/MSP 717)

These sensors can be used only for sensing motion of a ferrous object e.g. Gear Wheel. These incorporate a special high strength ALNICO Magnet with a properly designed coil. Special high frequency sensors incorporate a Hall effect sensor.

These switches are available in 2/3-wire design. The 3-wire type switches have output logics / operating voltages similar to other types of switches described earlier.

The 2-wire switches should be necessarily used with a special controller / amplifier unit.

## APPLICATIONS

- Turbine high-speed sensor.
- Bucket Elevator high temperature sensor.

## AUTOMOBILE SENSORS

Special / custom built models are available for Automobile applications as below;

- Transfer case speed sensor.
- Wheel Rotation sensor for Fare-meter.
- Door close sensor.
- Timing Sensor.
- Clutch worn-out sensor.

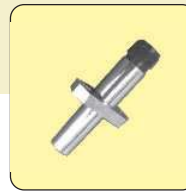
# MAGNETIC PROXIMITY SWITCHES



DC SW7051/ AC SW7055

MAGNETIC		M8	M12	M18
Dimension :	Dia.	M8	M12	M18
	Length (mm)	50, 65	50, 65	50, 65
Sensing Distance	Sn. (mm)	F - 1.5	F - 1.5	F - 3
Enclosure		B, S	B, A, S	B, A, S, T
Load Current	(mA)	200	200	400
Supply Voltage	(V DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency	(Hz)	25	25	50
Logic Available		NO, NC	NO, NC	NO, NC
MAGNETIC				
Dimension :	Dia.	H1211	H6520	H2814
	Length (mm)	26 x 12 x 11	65 x 16 x 20	28 x 14 x 6
Sensing Distance	Sn. (mm)	10	20	3
Enclosure		H	H	A
Load Current	(mA)	50	200	50
Supply Voltage	(V DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency	(Hz)	50	50	50
Logic Available		NO, NC	NO, NC	NO, NC
MAGNETIC				
Dimension :	Dia.	H2526	H5*26	H5*30
	Length (mm)	25 x 26 x 6	4 x 5 x 26	5 x 7 x 30
Sensing Distance	Sn. (mm)	20	20	10
Enclosure		A	H	A
Load Current	(mA)	100	100	100
Supply Voltage	(V DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency	(Hz)	50	50	50
Logic Available		NO, NC	NO, NC	NO, NC
MAGNETIC				
Dimension :	Dia.	H5625	H7*30	H3822
	Length (mm)	110 x 56 x 25	7 x 8 x 30	38 x 22 x 12
Sensing Distance	Sn. (mm)	100	10	20
Enclosure		A	H	A
Load Current	(mA)	100	100	50
Supply Voltage	(V AC/DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency	(Hz)	50	50	50
Logic Available		NO, NC	NO, NC	NO, NC

# MAGNETIC PROXIMITY SWITCHES



## DC SW7061

MAGNETIC		M12	M18	M30
Dimension :	Dia.	M12	M18	M30
	Length (mm)	50, 65	50, 65	50, 65
Sensing Distance	Sn. (mm)	F - 1.5	F - 3	F - 10
Enclosure		B, A, S	B, A, S, T	B, A, S, T
Load Current	(mA)	N.A.	N.A.	N.A.
Supply Voltage	(V DC)	N.A.	N.A.	N.A.
Switching Frequency (Hz)		5000	5000	5000
Logic Available		N.A.	N.A.	N.A.

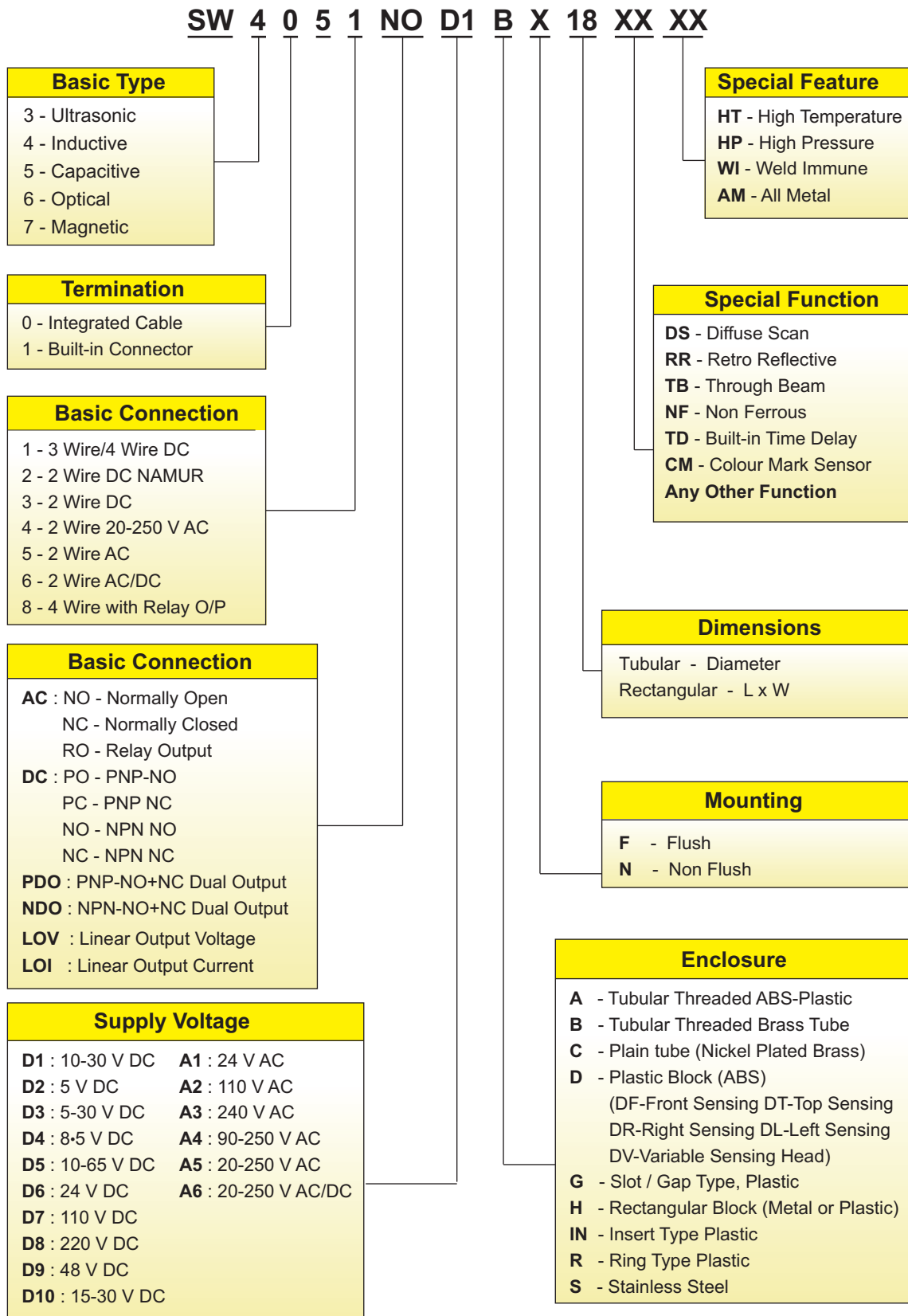
## DC SW7071

MAGNETIC		M8	M10	M12
Dimension :	Dia.	M8	M10	M12
	Length (mm)	35, 50, 65	50, 65	50, 65
Sensing Distance	Sn. (mm)	F - 1.5	F - 1.5	F - 1.5
Enclosure		B, S	B, S	B, A, S
Load Current	(mA)	50	50	50
Supply Voltage	(V DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency (Hz)		5000	5000	5000
Logic Available		PO, NO	PO, NO	PO, NO

MAGNETIC		M16	M18	C10.7
Dimension :	Dia.	M16	M18	C10.7
	Length (mm)	35, 50, 65	50, 65	50
Sensing Distance	Sn. (mm)	F - 3      NF - 5	F - 3	F - 3
Enclosure		B, S	B, A, S, T	B
Load Current	(mA)	50	50	50
Supply Voltage	(V DC)	D1 to D6	D1 to D6	D1 to D6
Switching Frequency (Hz)		5000	5000	5000
Logic Available		PO, NO	PO, NO	PO, NO

# SELECTION CHART

While selecting a switch please follow this nomenclature



The Sensing Distance, Load Current, Switch Length, Cable Length, Operating Temperature will be as per factory standard unless otherwise specifically mentioned.

**Example** : Inductive Proximity Switch of 3-Wire DC PNP tubular type with 24 mm diameter will have following type no. **SW 4051 PO D1 B24**