

23rd May, 2018

TOKYO KEIKI INC.
Overseas Sales Sect. Sales Dept.
Fluid Power & Control Systems Co.

Product Discontinuation Announcement

End of Production of Electronic Pressure Switch "ESP series" and, New release of Electronic Pressure Switch "ESW series"

Dear Valued Customers and Distributors

Thank you very much for your continuous support on TOKYO KEIKI hydraulic products.

We hereby announce the END OF PRODUCTION of the electronic pressure switch ESP series due to the availability of components parts. The successor model will be the ESW series which is detailed below.

If you have any question, please kindly contact us.

Sincerely Yours

End of Production 【ESP series】



Successor Model 【ESW series】



Pressure Switch Body (Left)
Remote Setting Device (Right)

【Availability of ESP series】

Orders for the ESP series will be received until **end of July 2018.**

【New release of ESW series】

First order for ESW series will be acceptable from **June 2018**

【Overview & Features of ESW series】

- The detection pressure / output method can be set by the setting device without contact (infrared communication)
- Detection pressure may be set by simply connecting the power. and without mounting the switch to the actual hydraulic circuit (no actual pressure required)
- Common setting is possible for multiple sensors by digital setting.
- High environmental resistance (IP67).
- Piping and wiring may be done separately by connecting harness through M12 connector.
- Dead band is adjustable to preferred setting with normally two circuits
- Wide range of power supply voltage (DC9 to 36V)

[Remark] Rating output only 1MPa, Environmental resistant performance is IP65

【ESW Setting Device】

- ESW series itself does not have pressure setting unit nor a display unit. The setting device (sold separately) performs the pressure setting operation.
- One setting device is applicable to multiple ESW units (setting must be operated one by one).
- Digital display on the setting device allows easy confirmation of setting values of detection pressure or status of the switch.

【Notes on Replacement from ESP (current) to ESW(successor)】

- Designated setting device (the ESW-10) is required for changing pressure settings for ESW series.
- Please refer to **Table 1** for replacement reference from the ESP series to ESW series. Please also refer to **Drawing 1** for comparison of dimension.
- Please contact us if you cannot find the succeeding model for the ESW series on **Table 1**.

【Usage】

- Drawing, manuals for ESW series are available (**Table 2**). Please send request for further assistance.

【Model Code Description for ESW series】

ESW	-	*	-	**	-	10	-	(L3)
1		2		3		4		5

① ESW Series Pressure Switch

② Connection Thread

R: R1/4, G2: G1/4A, G3: G3/8A

③ Rating pressure

1: 1MPa, 10: 10MPa, 20: 20MPa, 35: 35MPa, 50: 50MPa

④ Design Number

⑤ Harness Length

Omit: Without Harness, L3: With 3m Harness

Table1 : Reference Table for ESP /ESW series

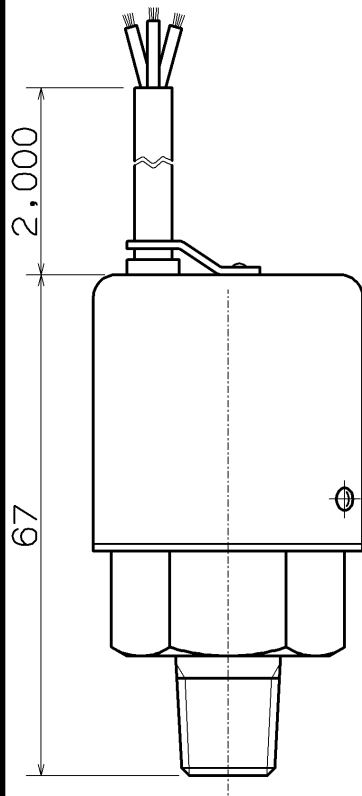
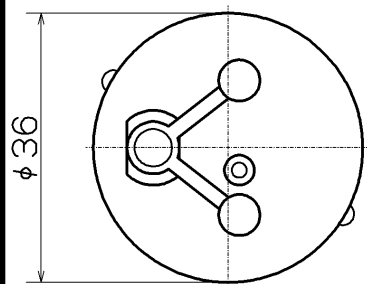
Current ESP series					NEW ESW series	
Model	Joint Connection	Prssr. Range [MPa]	Harness Length	Connector	Model	Harness Length
ESPP-F3/L1*-*-*	R1/4	≤ 1	Std (2[m])	None	ESW-R-1-10-L3	3m
ESPP-L2/L3-*-*		10			ESW-R-10-10-L3	
ESPP-H/H2/H3-*-*		35			ESW-R-35-10-L3	
ESPP-H1*-*-*		50			ESW-R-50-10-L3	
ESPF-H2/H3-*-*	G1/4A	35			ESW-G2-35-10-L3	
Standard products not applicable to the above					ESW-*-*10(-L*)	Please Ask
Specialized Models not applicable to the above					ESW-*-*10(-L*)-S*	

Table 2: Related Documents (Japanese)

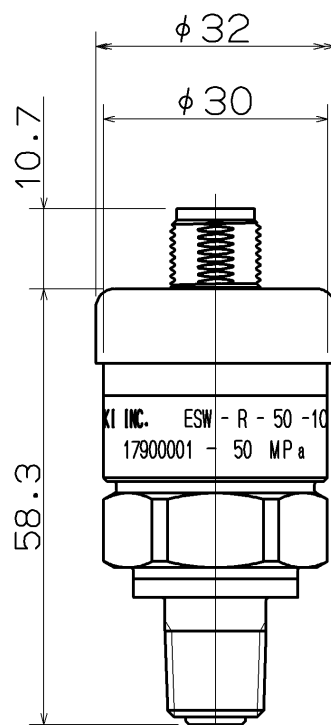
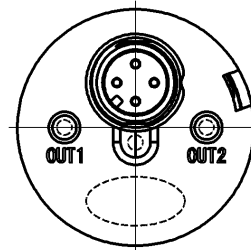
Classification	Name of Document	Ref.Number
Dimensional Drawing	Electronic Pressure Switch ESW-*-*10(-L*)	42982641
Dimensional Drawing	Setting Device for Electronic Pressure Switch ESWS-10	42983502
Manual	Electronic Pressure Switch ESW-*-*10 / ESWS-10	TS17-021
Manual (Including the Setting Device)	Setter for Electronic Pressure Switch ESWS-10	TS17-025

Table 3: Main Specification Comparison

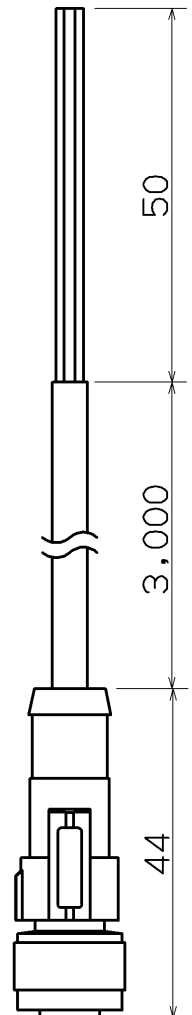
Item	ESP	ESW
Power Voltage	DC10~28[V]	DC9~36[V]
Output Rating	DC30[V], Max 80[mA]	NPN:DC30[V]/PNP: Power Supply Voltage, Max250[mA]
Dead Band	2~10[%]F.S.	Variable
Environmental Resistance	Splash-proof (JIS D 0203-M2) Water-proof (JIS D 0203-D2) (H20/HN20 model)	IP67 (more than 10[MPa]) IP65 (less than 1[MPa])
Operating Temp	-20~+70[°C]	-20~+70[°C]
Vibration Resistance	JIS D 1601stage 70 X,Y,Z direction	JIS C 60068-2-6:300[m/s ²], 10~2000[Hz]
Shock Resistance	JIS C 0912-1984 196m/s ² X,Y,Z direction	JIS C 60068-2-27:1,000[m/s ²], 6[ms] X,Y,Z Forward and Backward, 3 times each



ESP series



ESW series



Drawing 1: Dimension Comparison