

# SYNCHROSCOPE LED INDICATOR

위상 동기 검출기 Phase Synchronous Detection With LED Indicator



### ● 특징

두 Line의 삼상 System 또는 System과 발전기 사이의 위상과 주파수가 일치하는지 측정하는 표시기 입니다.

두 개 line의 시스템이 같은 위상과 주파수값이 같을 경우 정중앙 LED가 꺼짐현상 (OFF)이 됩니다.

### ● Feature

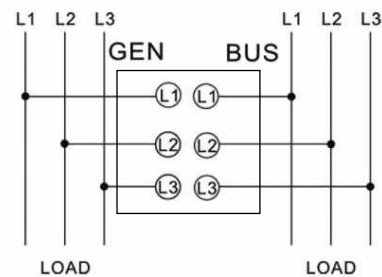
If the phase and frequency of generator differ from the phase and frequency of electricity net, the LED on the top of the panel turns on one by one.

If the phase and frequency of generator conform to the phase and frequency of electricity net, the LED on the top of the panel turns off. The LED on the bottom of the panel turns on.

### ● Specifications

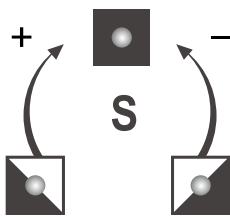
Part	Specification
	WYMT-SH96SC3 (3Phase)
Rating Voltage(V)	3 Phase : 110V, 220V, 380V, 440V
Rating Voltage Range	85~115%
Power Consumption	5VA
Frequency	50 or 60Hz
Working time	Max, 15min
Operating Temperature	-25°C ~ +60°C
Humidity	5 ~ 95%
Dimension	96×96mm (Cutout size 92×92mm)
Weight	0,7kg

### ● Connection Diagram



### ● LED Indicator

주파수 위상 정상시(동기일치)  
LED가 꺼짐(OFF)



GEN Power LED    BUS Power LED

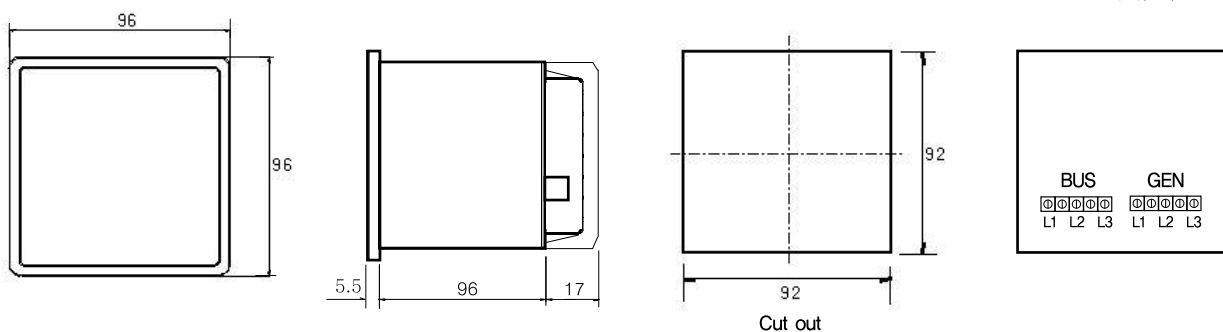
GEN	BUS(기준)	LED(점멸 방향)	상태
H	-	+측	비정상(X)
L	-	-측	비정상(X)
-	-	상측LED OFF 하측LED(2개)ON	정상(O)

발전기(GEN)의 위상 및 주파수가 전력선(BUS 모선)의 위상 및 주파수와 다를 경우 패널상단의 LED가 회전하며 점멸 됩니다.

#### 다음 경우 :

- GEN>BUS + 방향으로 점멸되고
- GEN<BUS - 방향으로 점멸되며, 주파수 차이가 많을수록 점멸 속도가 빠르며 주파수가 가까워 질수록 느려짐.
- GEN=BUS가 같을 경우(동기 정상시) 중앙의 LED Lamp가 꺼지고(OFF) 하단LED 2곳은 켜져(ON)있습니다.

### ● Dimension





## ● Dimension

### · WY-R Type Dimension

(Unit = mm)

Front view																														
Rear view		<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>E</th> <th>Ø</th> </tr> </thead> <tbody> <tr> <td>WY-R08</td> <td>80</td> <td>80</td> <td>36</td> <td>15</td> <td>34</td> <td>30</td> <td>64</td> <td>65</td> </tr> <tr> <td>WY-R10</td> <td>100</td> <td>80</td> <td>36</td> <td>15</td> <td>36</td> <td>28</td> <td>80</td> <td>65</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	E	Ø	WY-R08	80	80	36	15	34	30	64	65	WY-R10	100	80	36	15	36	28	80	65	
Type	W	H	D	A	B	C	E	Ø																						
WY-R08	80	80	36	15	34	30	64	65																						
WY-R10	100	80	36	15	36	28	80	65																						

### · WY-R Type Dimension

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Rear view		<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>E</th> <th>Ø</th> </tr> </thead> <tbody> <tr> <td>WY-R05</td> <td>51</td> <td>51</td> <td>35</td> <td>14</td> <td>18</td> <td>18</td> <td>36</td> <td>44</td> </tr> <tr> <td>WY-R06</td> <td>60</td> <td>60</td> <td>35</td> <td>14</td> <td>24</td> <td>24</td> <td>48</td> <td>54</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	E	Ø	WY-R05	51	51	35	14	18	18	36	44	WY-R06	60	60	35	14	24	24	48	54	
Type	W	H	D	A	B	C	E	Ø																						
WY-R05	51	51	35	14	18	18	36	44																						
WY-R06	60	60	35	14	24	24	48	54																						

### · WY-S Type Dimension

(Unit = mm)

Front view																																							
Rear view		<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>WY-S47</td> <td>48</td> <td>48</td> <td>44</td> <td>5</td> <td>44</td> <td>12</td> <td>44,5</td> <td>44,5</td> </tr> <tr> <td>WY-S72</td> <td>72</td> <td>72</td> <td>67</td> <td>5</td> <td>44</td> <td>22</td> <td>68</td> <td>68</td> </tr> <tr> <td>WY-S96, SH96</td> <td>96</td> <td>96</td> <td>91</td> <td>5</td> <td>44</td> <td>22</td> <td>92</td> <td>92</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	X	Y	WY-S47	48	48	44	5	44	12	44,5	44,5	WY-S72	72	72	67	5	44	22	68	68	WY-S96, SH96	96	96	91	5	44	22	92	92	
Type	W	H	D	A	B	C	X	Y																															
WY-S47	48	48	44	5	44	12	44,5	44,5																															
WY-S72	72	72	67	5	44	22	68	68																															
WY-S96, SH96	96	96	91	5	44	22	92	92																															

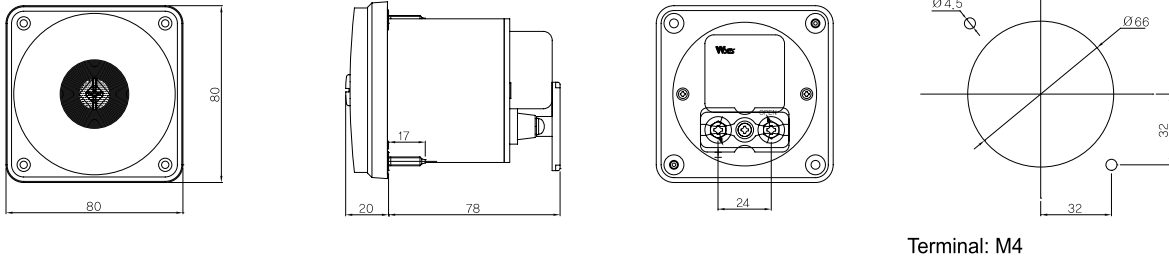
### · Mounting Introduction

WY-S47, WY-S96	WY-S72		WY-SH96	

**T R A N S** 트랜스포머  
**N C T** 노이즈컷트랜스  
**S S R** 무단접합릴레이  
**T P R** 전력조정기  
**S M P S** 스위칭파워  
**N / F** 노이즈필터  
**H / F** 고조파필터  
**S P D** 서지보호기  
**R E L A Y** 보호계전기  
**E L D** 누전경보기  
**G F R** 지락계전기  
**Z C T** 영상변류기  
**M E T E R** 지시전기계기  
**C T / V T** 계기용변성기  
**F A N** 팬

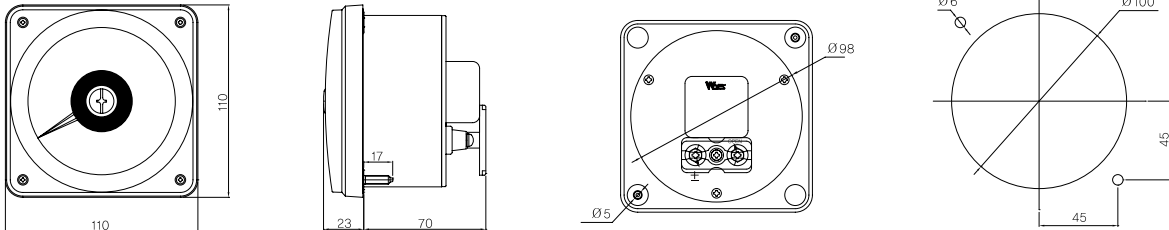
## ● Dimension

### · WY-W08 Type Dimension



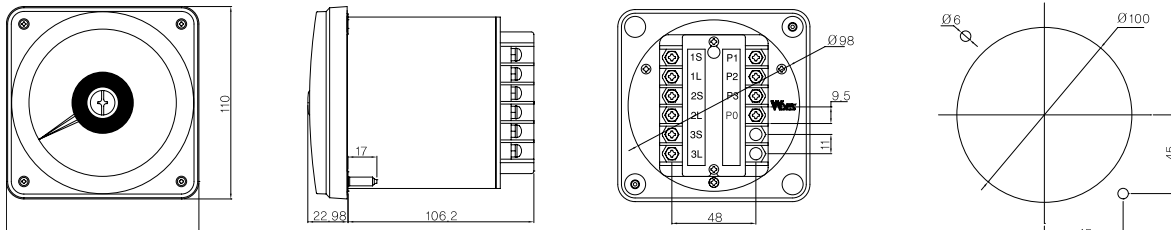
Terminal: M4

### · WY-W11 A, V Type Dimension



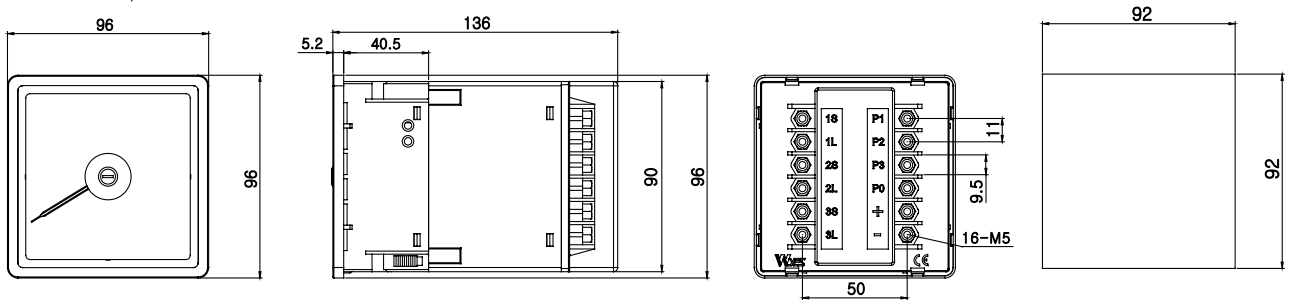
Terminal: M4

### · WY-W11 KW, var, PF Type Dimension



Terminal: M4

### · WY-SH96 KW, var PF Dimension



## ● 외부 변환기 사용

R, S, W08 타입의 Watt, var, Hz PF 계측기는 외부에 우측과 같은 변환기 (T/D) 를 사용합니다.

## ● External Transducers (For meter)

The Transducer for meter is used with the Watt, var and PF meter, etc., of the R type and S type or W08 type which is external transducer.

