

**INSTRUCTION MANUAL OF  
LIMIT SWITCH (TL-W TYPE)**

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**CAM TYPE LIMIT SWITCH**

◎ TL - W



**(FORMER, T.H. ELEMA ENG. CO., LTD.)**

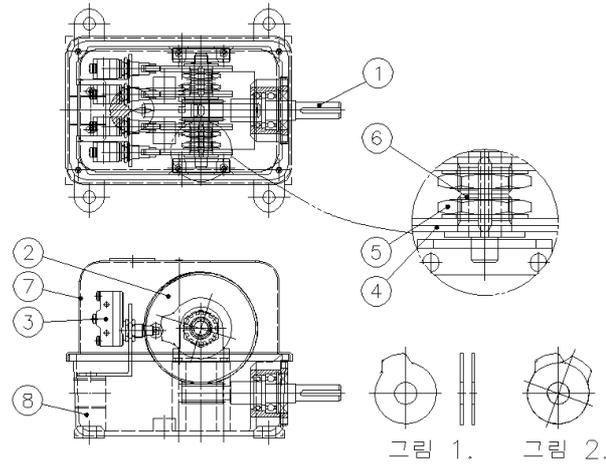
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## 1. OPERATION CONCEPT

THE WORM GEAR TYPE LIMIT SWITCH IS DESIGNED BY USING THE CONCEPT OF WORM AND WORM WHEEL, WHEN THE INPUT SHAFT OF WORM(1) TRANSMITS THE RPM FROM OUTSIDE TO WORM WHEEL(2), THE SWITCH IS ACTIVATED BY THE ROTATION OF CAM(4) WHICH IS ATTACHED AT WHEEL SHAFT. THERE ARE 3 KINDS OF REDUCTION RATIO (1/25,1/50, 1/100) AND THE ANGLE OF CAM(4) IS USED WITHIN 300°.

## 2. SCHEME



| NO | ITEM              | NO | ITEM               |
|----|-------------------|----|--------------------|
| 1  | WORM(INPUT SHAFT) | 5  | CAM ADJUST NUT     |
| 2  | WORM WHEEL        | 6  | CAM ADJUST BRACKET |
| 3  | MICRO SWITCH      | 7  | COVER              |
| 4  | CAM               | 8  | CASE               |

## 3. STANDARD

- 1) POINT OF CONTACT : 4b
- 2) SWITCH TYPE : ME-3
- 3) CONTACT CAPACITY : AC 125V / 15A  
AC 250V / 10

### 4) TYPE

| TYPE      | GEAR RATIO | APPLICABLE REV. |
|-----------|------------|-----------------|
| TL-W100R4 | 1/100      | 80              |
| TL-W050R4 | 1/50       | 40              |
| TL-W025R4 | 1/25       | 20              |