

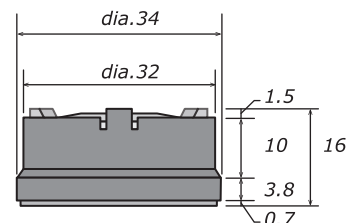
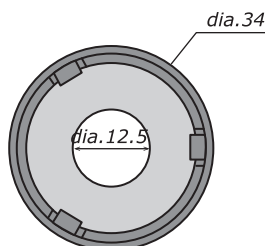
Thank you very much for purchasing our item.

### SPEC

Part No. / Part name : TIGHTNIK TZ12SES- I -R  
 Application : Outdoor buildings, etc.  
 (can be Indoor buildings )  
 Bolt diameter : 12mm  
 Following width : 4mm  
 Materials : Washer SPHC  
 Disc spring SAE1065  
 Magic-ring SWB  
 Resin case PC  
 Surface Treatment : Weather resistant  
 Packing quantity : 300 pcs.

### Product dimensions

【 Unit : mm 】



See the QR code for a video how TIGHTNIK works.



※ Rust-preventive treatment is "Ruspert Zero Sten" manufactured by Nihon Ruspert Co.

Ruspert Zero Stainless is a revolutionary surface treatment technology that further improves the corrosion resistance of zinc-nickel alloy plating as an alternative to stainless steel, with completely chromium-free specifications that do not require chromate treatment. (Excerpt from Ruspert Zero Sten catalog)



### Caution

**Combination with stainless steel bolts and nuts may cause rust.**



### 【Cautions for installation】 Must-read

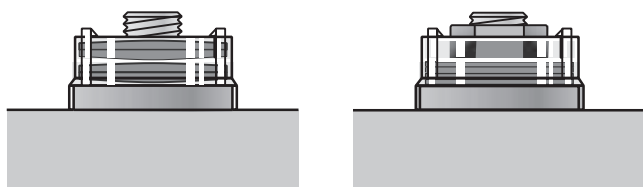
●Be careful not to overtighten as it will damage the threads and mounting location. ●Please do not disassemble the product as it may cause damage. ●It is difficult to remove the TIGHTNIK after the nut has been tightened. Be careful not to make a mistake in installation.

### Installation

#### When tightening with a torque wrench

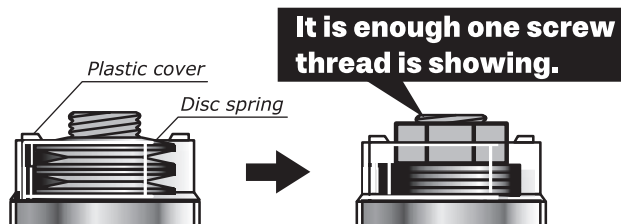
Tightening torque is 10 Nm to 30 Nm

①  ② Tighten the nut



#### For visual tightening

Tighten until the spring inside the plastic cover is snug. ※ Impact wrench use prohibited

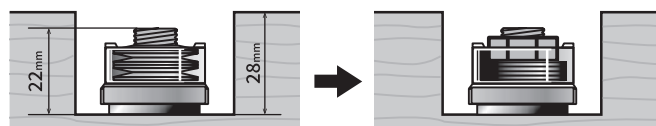


#### A washer is required when mounting on wood.



#### Depth of counterbore : 23-28mm

● With TIGHTNIK in place ● With nut tightened



It is OK if a single thread appears above the nut after tightening.

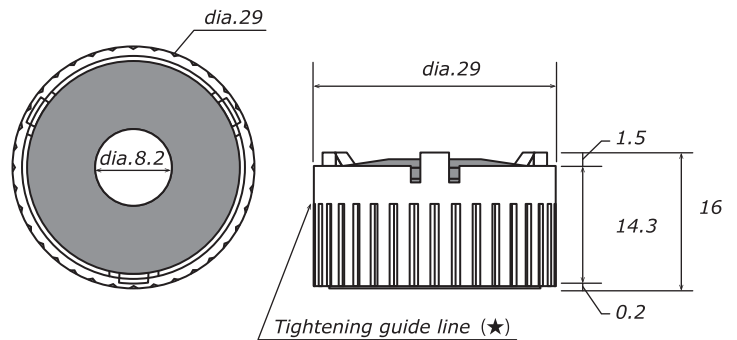
Thank you very much for purchasing our item.

### SPEC

Part No. / Part name : TIGHTNIK T-8S-1W29  
 Application : For wood  
 Bolt diameter : 8mm  
 Following width : 4mm  
 Materials : Washer JIS G3131  
 Disc spring SAE1065  
 Magic-ring SWB  
 Resin case PC  
 Surface Treatment : Weather resistant  
 Packing quantity : 300 pcs.

### Product dimensions

【 Unit : mm 】



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 Ruspert Zero Stainless is a revolutionary surface treatment technology that further improves the corrosion resistance of zinc-nickel alloy plating as an alternative to stainless steel, with completely chromium-free specifications that do not require chromate treatment. (Excerpt from Ruspert Zero Sten catalog)



**Caution**

**Combination with stainless steel bolts and nuts may cause rust.**



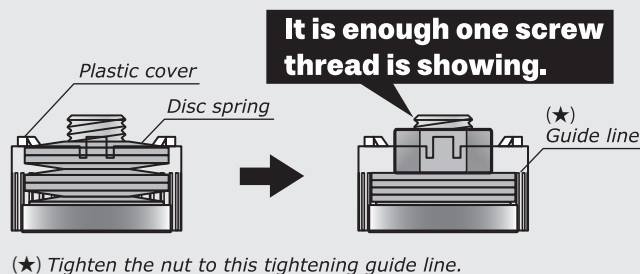
**【Cautions for installation】 Must-read**

●Be careful not to overtighten as it will damage the threads and mounting location. ●Please do not disassemble the product as it may cause damage. ●It is difficult to remove the TIGHTNIK after the nut has been tightened. Be careful not to make a mistake in installation.

### Installation

#### Tightening guideline

Tighten until the spring inside the plastic cover is snug.

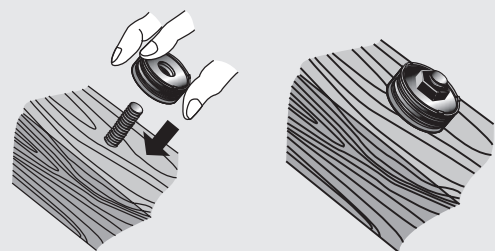


**Caution**

**Impact wrench use prohibited.**

#### For mounting on wood

Install TIGHTNIK directly.



See the QR code for a video how TIGHTNIK works.



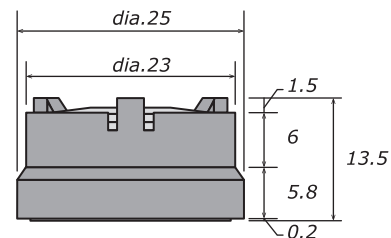
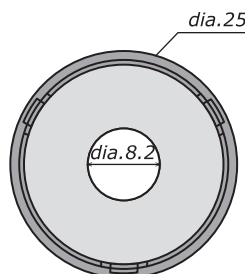
Thank you very much for purchasing our item.

### SPEC

Part No. / Part name : TIGHTNIK T-8S-1M25  
 Application : For metal  
 Bolt diameter : 8mm  
 Following width : 2mm  
 Materials : Washer JIS G3131  
 Disc spring SAE1065  
 Magic-ring SWB  
 Resin case PC  
 Surface Treatment : Weather resistant  
 Packing quantity : 300 pcs.

### Product dimensions

【 Unit : mm 】



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**Caution**

**Combination with stainless steel bolts and nuts may cause rust.**



### 【Cautions for installation】 Must-read

●Be careful not to overtighten as it will damage the threads and mounting location. ●Please do not disassemble the product as it may cause damage. ●It is difficult to remove the TIGHTNIK after the nut has been tightened. Be careful not to make a mistake in installation.

### Installation

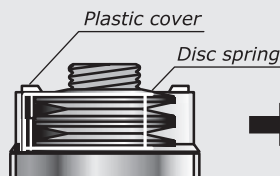
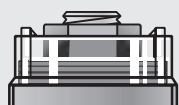
#### Tightening guideline

Tighten until the spring inside the plastic cover is snug.

①



② Tighten the nut



**It is enough one screw thread is showing.**



**Caution**

**Impact wrench use prohibited.**

See the QR code for a video how TIGHTNIK works.

