

# KombiSIGN reflect

**FCC:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Usually this is followed by the following FCC caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

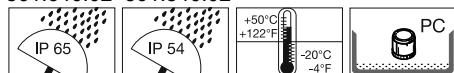
Contains transmitter module FCC ID: ZGHWIN1

**IC:** This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Contains transmitter module IC: 9619AWIN1

**reflect**  
861.640.02 861.840.02



## 1. Safety instructions



### WARNING

- This device does not replace personnel protective equipment (e.g. safety glasses, feet protection, etc.).
- This system does not take the place or replace any machine guards, machine safety guards, safety devices, safety procedures, or supervision.
- Always test this device, as well as all machine guards and safeguards, to ensure they are functional at start up of each shift.
- Always take machine out of service until worn out parts are replaced.
- Whenever removing guards, always enforce OSHA lock-out / tag-out regulations.
- Please also refer to the instruction leaflet for your WERMA signal tower.
- The **KombiSIGN reflect** system is not suitable for safety relevant applications.
- For use with 24 V signal towers only.
- Use only with a class 2 power supply (Protective Extra Low Voltage) are allowed.

## 2. Function

**KombiSIGN reflect** "reflects" the status of the machine to a signal tower within your line of sight. This enables you to "reflect" the machine status on to a second signal tower without any additional wiring.

## 3. Specifications

reflect	
ISM-frequency	915 MHz
transmission range	max. 300 m (unobstructed line of sight)
reflect transmitter	
dimensions	Ø 70 mm x 65 mm
current consumption	40 mA (max. 430 mA)
operating voltage	24 V AC/DC
Number of signal elements	max. 4
reflect receiver	
dimensions	Ø 70 mm x 65 mm
current consumption	40 mA (max. 900 mA)
operating voltage	24 V DC

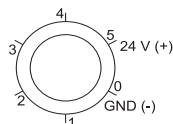
## 4. Supply voltage -

### 4.1 Supply voltage - reflect transmitter

The **reflect transmitter** taps his operating voltage from the supply line of the signal tower.

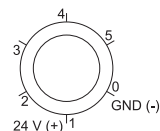
**Note:** If not at least one signal tower element is active then the **reflect receiver** cannot tell if the signal tower is "off" or there is a "transmission problem" (see 6. LED Diagnosis).

In this case a permanent power supply for the **reflect transmitter** should be connected to pin 5.



### 4.2 Supply voltage - reflect receiver

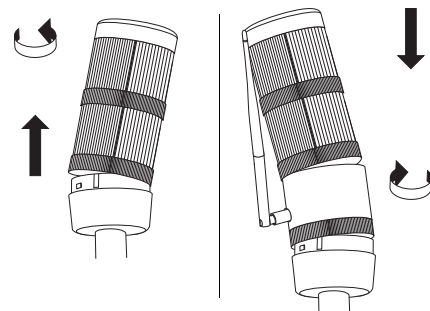
The reflect receiver needs a permanent operating voltage (24 V DC), which has to be connected to pins 0 and 1.



## 5. Mounting -

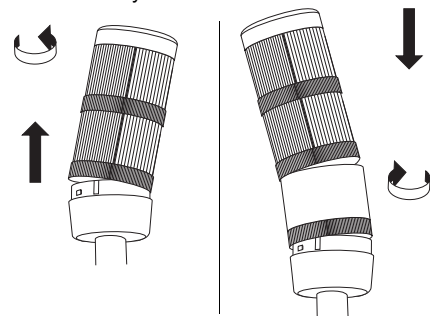
### 5.1 Mounting - reflect receiver

1. Position the **reflect receiver** as the first element of your signal tower. Observe the markings on the housing to connect the element correctly.



### 5.2 Mounting - reflect transmitter

1. Position the **reflect transmitter** as the first element of your signal tower. Observe the markings on the housing to connect the element correctly.



## 6. LED diagnosis

reflect transmitter		
Meaning	RED LED	GREEN LED
No connection with <b>reflect receiver</b>	x	
Connection with <b>reflect receiver</b>		x
reflect receiver		
Meaning	RED LED	GREEN LED
No connection with <b>reflect transmitter</b>	x	
Connection with <b>reflect transmitter</b>		x



Electrical connection is to be made by trained electrical specialists **only**.

