

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

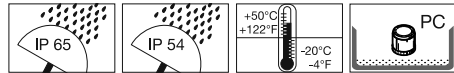
IC: This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (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.

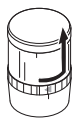
Contains transmitter module IC: 9619AWIN1

reflect

861.640.02 861.840.02



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



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

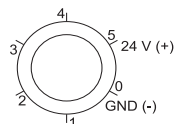
4. Supply voltage -

4.1 Supply voltage - reflect transmitter

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

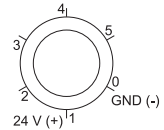
Note: If not at least one signal tower element is active then the **reflect receiver** cannot tell if the signal tower is "off" or there is a "transmission problem" (see 6. LED Diagnosis).

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



4.2 Supply voltage - reflect receiver

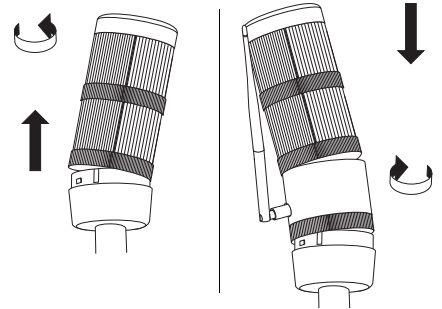
The reflect receiver needs a permanent operating voltage (24 V DC), which has to be connected to pins 0 and 1.



5. Mounting -

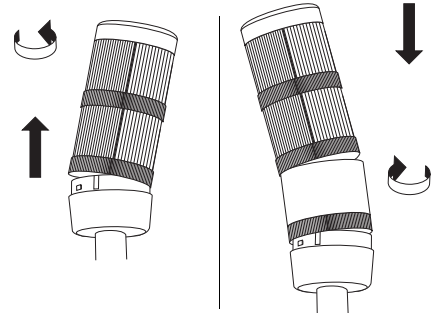
5.1 Mounting - reflect receiver

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 reflect receiver	x	
Connection with reflect receiver		x
reflect receiver		
Meaning	RED LED	GREEN LED
No connection with reflect transmitter	x	
Connection with reflect transmitter		x

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