

sensor_msgs/Range Message

File: `sensor_msgs/Range.msg`

Raw Message Definition

```
# Single range reading from an active ranger that emits energy and reports
# one range reading that is valid along an arc at the distance measured.
# This message is not appropriate for laser scanners. See the LaserScan
# message if you are working with a laser scanner.

# This message also can represent a fixed-
# distance (binary) ranger. This
# sensor will have min_range===max_range===distance of detection.
# These sensors follow REP 117 and will output -
# Inf if the object is detected
# and +Inf if the object is outside of the detection range.

Header header          # timestamp in the header is the time the ranger
                        # returned the distance reading

# Radiation type enums
# If you want a value added to this list, send an email to the ros-
# users list
uint8 ULTRASOUND=0
uint8 INFRARED=1

uint8 radiation_type    # the type of radiation used by the sensor
                        # (sound, IR, etc) [enum]

float32 field_of_view   # the size of the arc that the distance reading is
                        # valid for [rad]
                        # the object causing the range reading may have
                        # been anywhere within -field_of_view/2 and
                        # field_of_view/2 at the measured range.
                        # 0 angle corresponds to the x-
axis of the sensor.

float32 min_range        # minimum range value [m]
float32 max_range        # maximum range value [m]
                        # Fixed distance rangers require min_range==max_range

float32 range            # range data [m]
                        # (Note: values < range_min or > range_max
                        # should be discarded)
                        # Fixed distance rangers only output -
Inf or +Inf.            # -
                        # -
Inf represents a detection within fixed distance.
                        # (Detection too close to the sensor to quantify)
                        # +Inf represents no detection within the fixed distance.
                        # (Object out of range)
```

Compact Message Definition

```
uint8 ULTRASOUND=0
uint8 INFRARED=1
std\_msgs/Header header
uint8 radiation_type
float32 field_of_view
float32 min_range
float32 max_range
float32 range
```

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