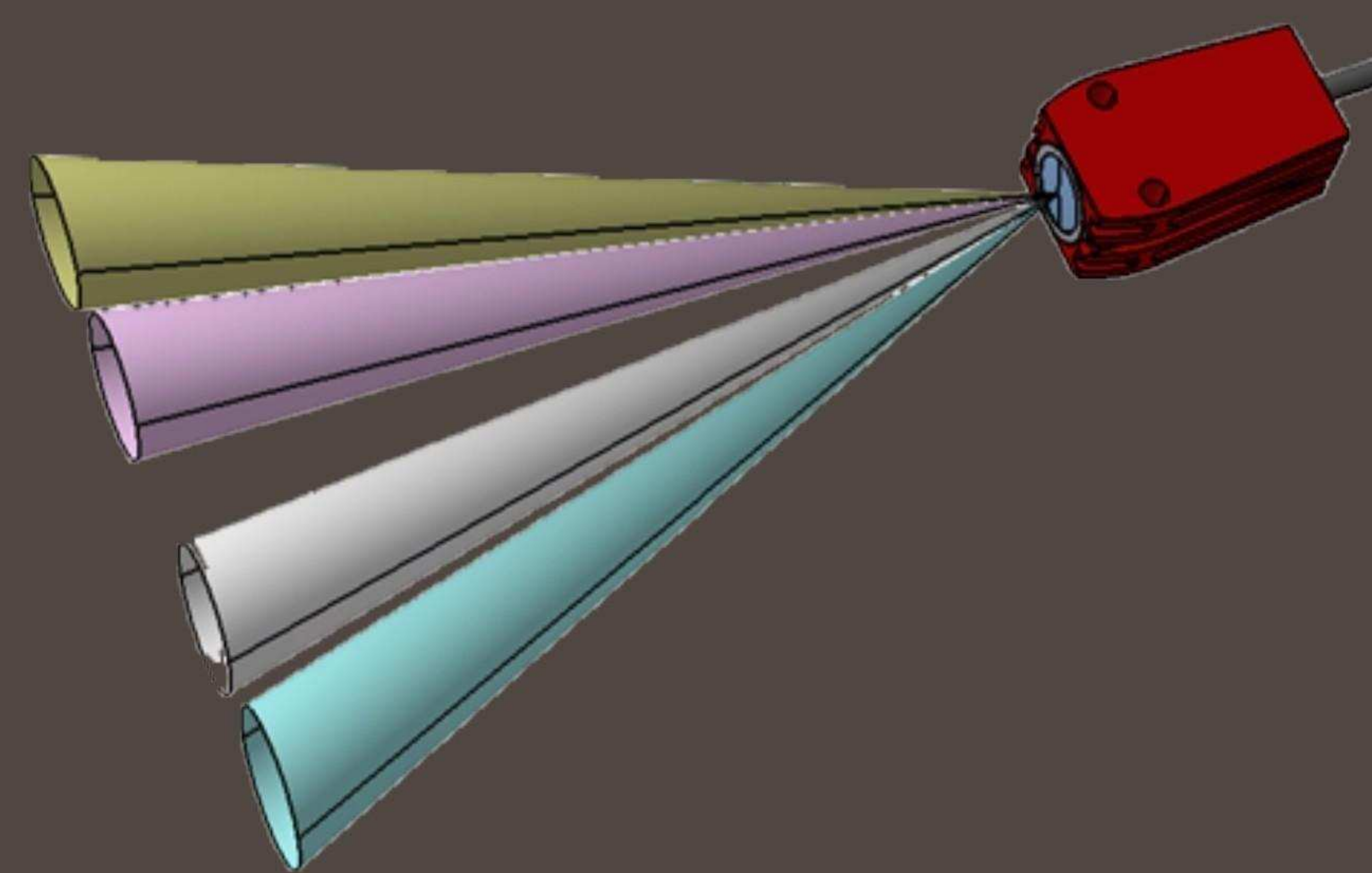




IRN4C – lens 0° or 90°

4-Channel Infrared tyre temperature sensor for CAN Bus

1/2

Range

-20 to +140°C

-20 to + 200°C

Measurement

4 channels in line

Accuracy

+/- 1 % FS

Response time

260 ms at FS

(=400 ms on raw input)

CAN bus 2.0 B

120 Ω not installed (on demand)

Output data

2 bytes per channel (signed int)

Resolution

0.1 °/bit

Baud rate

125 k to 1Mbps

Frequency

1 Hz, 10 Hz, on trigger

Supply voltage

6 to 16V

Supply current

17 mA

Measurement distance

50 to 400 mm

Mean angle between channels

9° channel 1to 3 & 6 to 8

13.5° channel 3 to 6

Field of view (90% radiation)

6.5 : 1 at 200 mm

3.3 : 1 at 50 mm

Wave length

8 to 14 μm

Emissivity/distance tuning

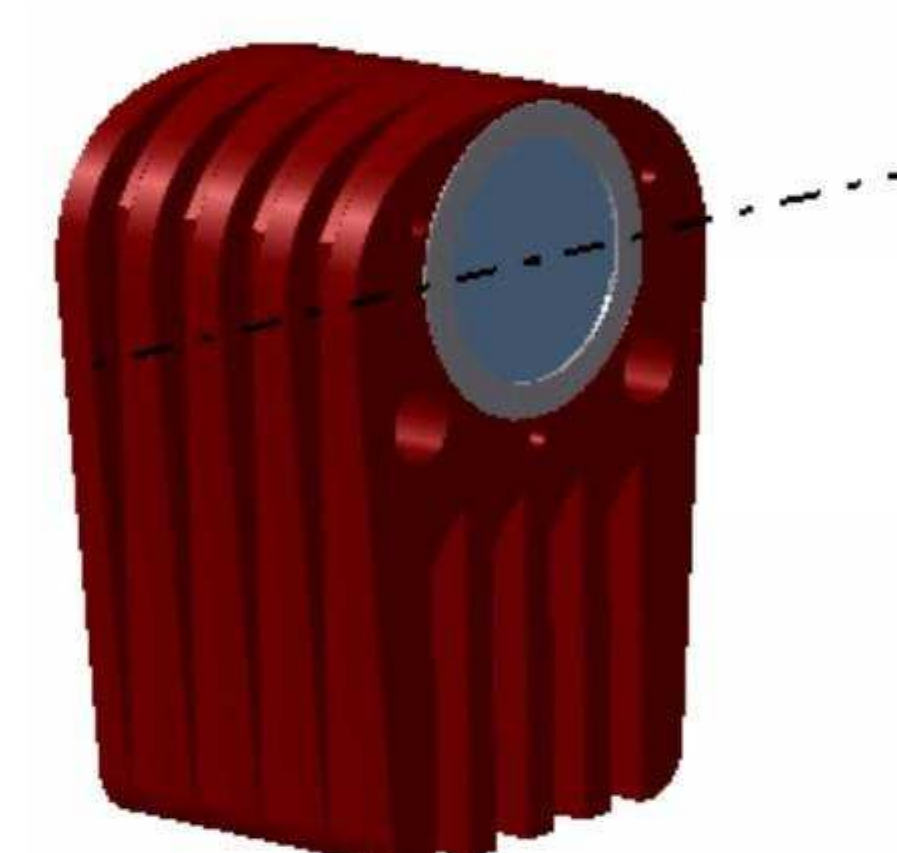
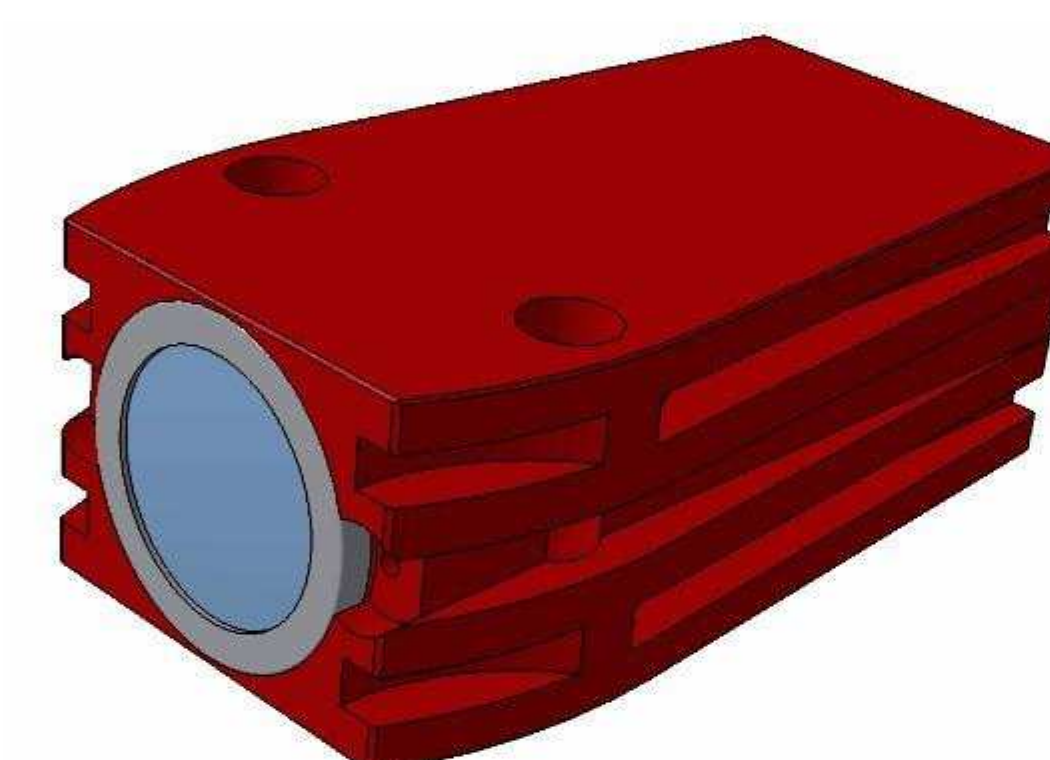
Gain factor by CAN 0.5 to 2

Operating temp

-20 to + 100°C

Storage temp

-40 to + 125°C



Distance	Ø target per channel	Total width
50 mm	15 mm	40 mm
100 mm	19 mm	75 mm
150 mm	24 mm	112 mm
200 mm	30 mm	152 mm
300 mm	45 mm	228 mm
400 mm	60 mm	304 mm

lens 0°

Ordering ref ex : IRN4C-F1-200
 IRN4C- F1 - Range
 200 (200°C)
 140 (140°C)

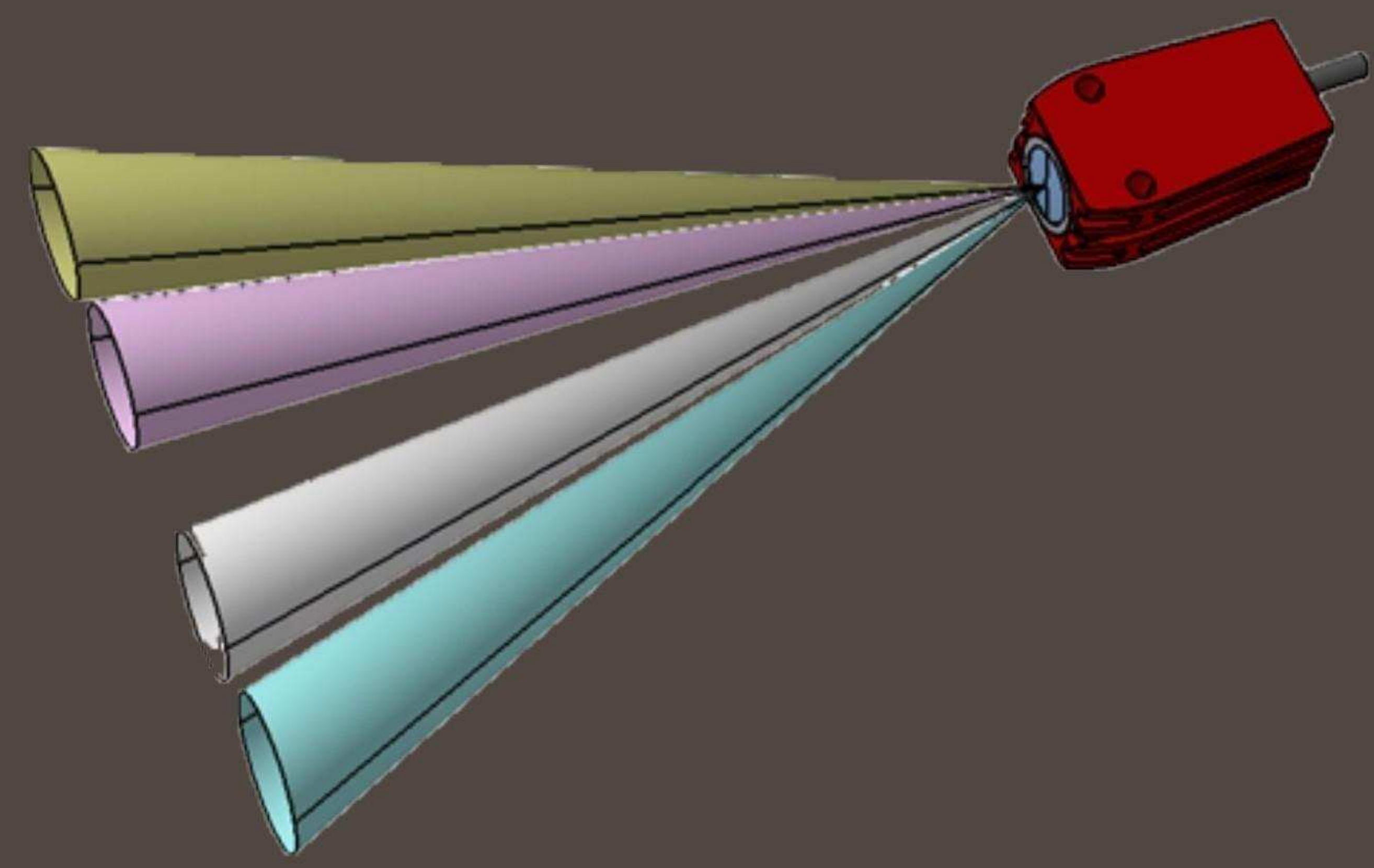
lens 90°

Ordering ref ex : IRN4C-90-200
 IRN4C - 90 - Range
 200 (200°C)
 140 (140°C)

1 m cable of 4X26AWG FEP
 tinned copper braided cable 250V 200°C

Red
 Black
 Green
 White
 Braid

Supply
 0 V
 CAN High
 CAN Low
 Not connected



2/2

IRN4C – lens 0° or 90°

4-Channel Infrared tyre temperature sensor for CAN Bus

Housing

Dimensions (lens 0°)
(lens 90°)

Aluminium

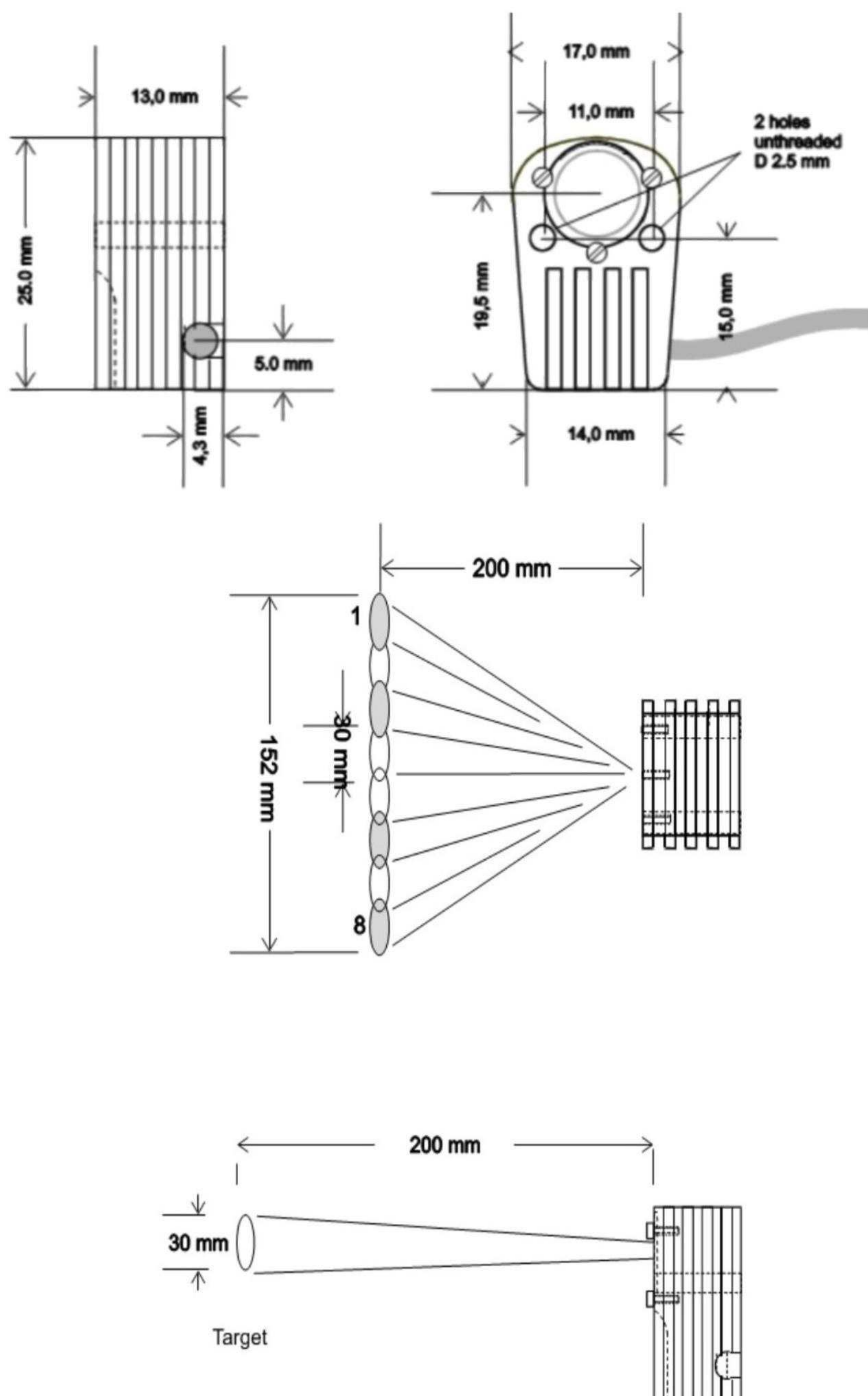
31x11x17 mm

25x17x13 mm

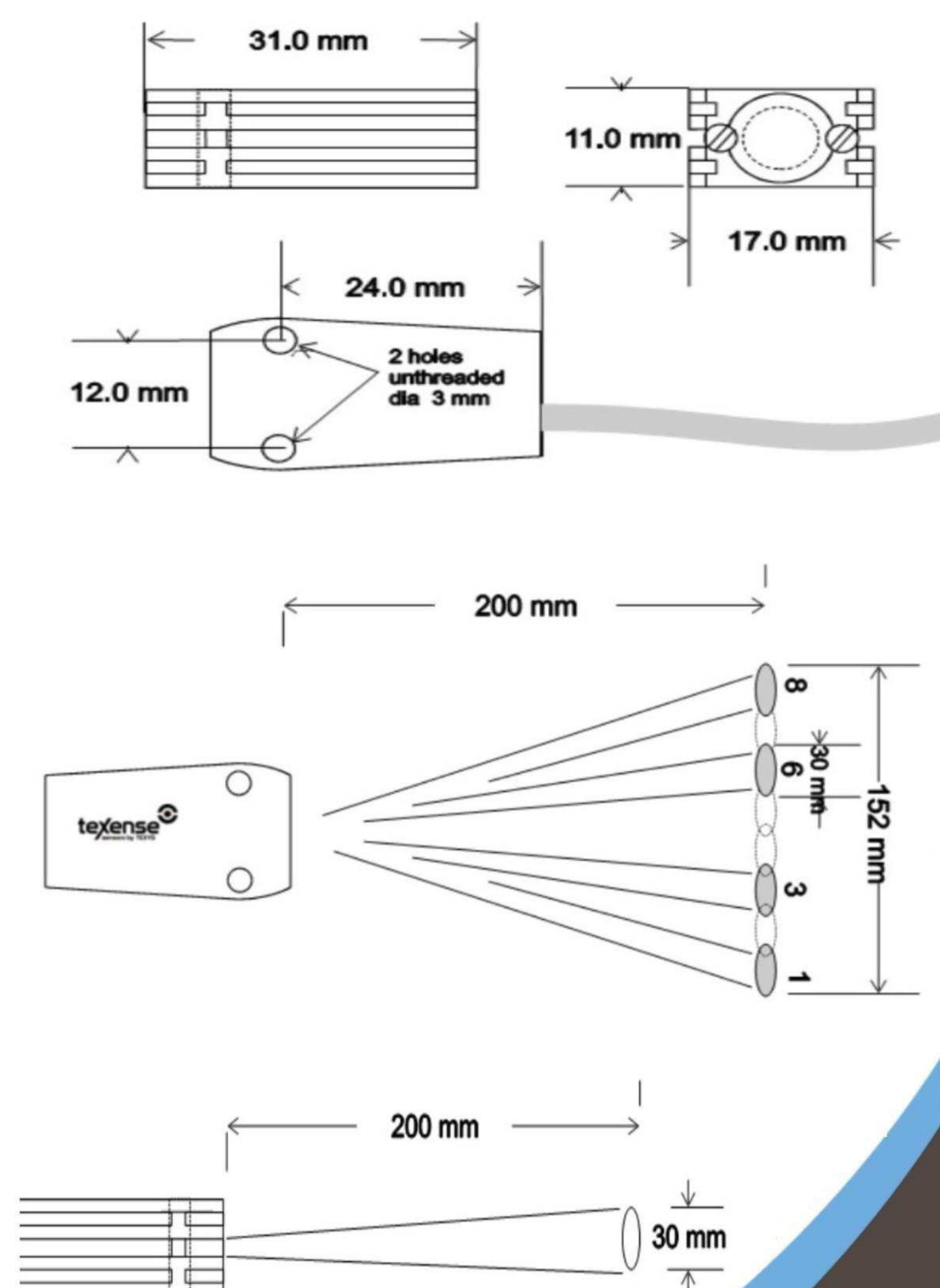
Weight (without cable)

15 g

lens 90°



lens 0°



In the interest of continuous product improvement, we reserve the right to alter without prior notice the specifications and features described in this document