IR rangefinder response curve (II) Exponential curve fitting Linearity evaluation 3.5 Sensor 1 (avgd.) 3.0 Sensor 2 (avgd.) Linear fit region 40 Sensor 3 (avgd.) $d(V) = \frac{21.6}{V - 0.16}$ Sensor output [V] Fitted curve 30 d [cm] $V(d) = 21.6\frac{1}{d} + 0.16$ 20 10 0.50.0 20 40 60 80 10 20 30 40 50 100 Actual distance d from sensor to wall [cm] d [cm]