Table S1. Leaf net CO_2 assimilation rate (An), stomatal conductance to water vapour (gsw), concentration of internal CO_2 (Ci), transpiration (E), instantaneous water use efficiency (WUEi) and leaf chlorophyll content (chl) of green bean plants irrigated with a timer or based on dielectric sensors at 0.35, 0.30 and 0.25 m^3 m^{-3} irrigation set-point.

	An	**gsw**	**Ci**	**E**	**WUEi**	**chl**
	μmol CO_2 m^{-2} s^{-1}	mol H_2O m^{-2} s^{-1}	μmol CO^2 mol air^{-1}	mmol H_2O m^{-2} s^{-1}	μmol CO_2 mmol H_2O^{-1}	μmol m^{-2}
TIMER	17.3	0.4	288	8.2	2.1	361
SENSOR_0.35	16.5	0.3	279	7.8	2.1	366
SENSOR_0.30	16.9	0.4	286	8.0	2.1	380
SENSOR_0.25	16.6	0.4	293	8.2	2.0	417
Significance	ns	ns	ns	ns	ns	ns

Mean separation within columns by LSD test. ns: not significant at P≤0.05.

Table S2. Nitrogen, calcium, potassium and magnesium content in shoot, roots and fruits; carotenoids, glucose (Glu) and fructose (Fru) content in fruits of green bean plants irrigated with a timer or based on dielectric sensors at 0.35, 0.30 and 0.25 m^3 m^{-3} irrigation set-point.

	Shoot				**Roots**				**Fruits**						
	N tot	**Ca**	**K**	**Mg**	**N tot**	**Ca**	**K**	**Mg**	**N tot**	**Ca**	**K**	**Mg**	**Carotenoids**	**Glu**	**Fru**
	g kg^{-1} of DW												mg g^{-1} DW	g kg^{-1} FW	
TIMER	24.9	34.9	23.9	4.4	24.6	14.8	18.2	5.9	32.0	8.1	29.2	2.5	276	12.2	17.1
SENSOR_0.35	23.2	28.7	24.3	3.1	19.6	22.7	28.1	5.6	31.5	7.3	30.0	2.5	292	13.2	20.3
SENSOR_0.30	26.5	27.3	30.6	3.3	23.5	15.4	18.7	5.0	32.8	8.1	31.3	2.6	309	13.0	21.0
SENSOR_0.25	20.4	31.8	20.9	3.2	24.6	19.0	17.1	5.4	30.3	6.7	32.3	2.7	314	12.1	17.2
Significance	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

Mean separation within columns by LSD test. ns not significant at P≤0.05.