

### /// Sensors with reduction factor 1



Sensors with this feature provide a constant scanning range  $S_n$ , independent of the material – regardless of whether iron, stainless steel or copper. It can be used with objects made of different materials, or with very thin metal foils.



#### Benefits:

- Constant material-independent range  $S_n$
- For various metals and thin foils



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Part no.	Part description	Operating range $S_a$ Typ. operating range limit $S_n$	Switching frequency	Type of installation	Switching output 1	Description	Connection	Material
50111436	IS 230FM/4NO.5F-40N-S12	0 ... 32.4 mm 40 mm	90 Hz	Non-embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50109734	IS 218FM/4NO.5F-20N-S12	0 ... 16.2 mm 20 mm	200 Hz	Non-embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50109738	IS 212FM/4NO.5F-10N-S12	0 ... 8.1 mm 10 mm	400 Hz	Non-embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50111435	IS 230FM/4NO.5F-20E-S12	0 ... 16.2 mm 20 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128161	IS 230FM/4NC.5-10E-S12	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128162	IS 230FM/4NC.5-10E	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50109732	IS 218FM/4NO.5F-10E-S12	0 ... 8.1 mm 10 mm	300 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128163	IS 230FM/4NO.5-10E-S12	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128164	IS 230FM/4NO.5-10E	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128165	IS 230FM/2NO.5-10E-S12	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128166	IS 230FM/2NO.5-10E	0 ... 8.1 mm 10 mm	50 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50109736	IS 212FM/4NO.5F-6E0-S12	0 ... 4.8 mm 6 mm	600 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128167	IS 218FM/4NC.5-5E0-S12	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128168	IS 218FM/4NC.5-5E0	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128169	IS 218FM/4NO.5-5E0-S12	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128170	IS 218FM/4NO.5-5E0	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128171	IS 218FM/2NO.5-5E0-S12	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128172	IS 218FM/2NO.5-5E0	0 ... 4 mm 5 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128173	IS 212FM/4NC.5-3E0-S12	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128174	IS 212FM/4NC.5-3E0	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128175	IS 212FM/4NO.5-3E0-S12	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128176	IS 212FM/4NO.5-3E0	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128177	IS 212FM/2NO.5-3E0-S12	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Connector, M12, 4-pin	Stainless steel
50128178	IS 212FM/2NO.5-3E0	0 ... 2.4 mm 3 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128179	IS 208FM/4NC.5-2E0-S8.3	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Connector, M8, 3-pin	Stainless steel
50128180	IS 208FM/4NC.5-2E0	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, PNP, break-contact (NC)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128181	IS 208FM/4NO.5-2E0-S8.3	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Connector, M8, 3-pin	Stainless steel
50128182	IS 208FM/4NO.5-2E0	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, PNP, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel
50128183	IS 208FM/2NO.5-2E0-S8.3	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Connector, M8, 3-pin	Stainless steel
50128184	IS 208FM/2NO.5-2E0	0 ... 1.6 mm 2 mm	100 Hz	Embedded	Transistor, NPN, make-contact (NO)	Reduction factor 1, DC	Cable, 2,000 mm, 3-wire	Stainless steel