



Inductive sensors



GS04.001



GS04.007

Product notes

- > PNP or NPN switching functions
- > Integrated control LED
- > GS04.007 IO-Link capable (has no effect on standard operation without IO-Link)

Technical data

	GS04.001	GS04.002	GS04.007	GS04.008	GS04.009	GS04.010	GR04.193P
Item no.	GS04.001	GS04.002	GS04.007	GS04.008	GS04.009	GS04.010	GR04.193P
Switching output	PNP	NPN	PNP	NPN	PNP	NPN	PNP
Type	straight	straight	straight	straight	straight	straight	straight
Nut-Model	T	T	C	C	C	C	C
Operating voltage [VDC]	10 - 30	10 - 30	10 - 30	10 - 30	10 - 30	10 - 30	10 - 30
Max. switching current [mA]	150	150	100	100	200	200	200
Idle current [mA]	15	15	10	10	10	10	10
Max. voltage drop [V]	1.8	1.8	2 at 100 mA	2 at 100 mA	1.5	1.5	1.5
Max. switching frequency [Hz]	2,000	2,000	8,000	8,000	2,000	2,000	2,000
Switching distance [mm]	2	2	1	1	0.8	0.8	0.8
Switching logic	Contact (NO)	Contact (NO)	Contact (NO)	Contact (NO)	Contact (NO)	Contact (NO)	Contact (NO)
Reverse polarity protection	yes	yes	yes	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes	yes	yes	yes
Protection class	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Shock resistance	30 G, 11 ms	30 G, 11 ms	30 G, 11 ms	30 G, 11 ms	30 G, 11 ms	30 G, 11 ms	30 G, 11 ms
Fibration resistance	55 Hz, 1 mm	55 Hz, 1 mm	55 Hz, 1 mm	55 Hz, 1 mm	55 Hz, 1 mm	55 Hz, 1 mm	55 Hz, 1 mm
Cable length [mm]	200	200	200	200	300	300	2,000
Electric connection	3-pin male M8 connector	3-pin male M8 connector	3-pin male M8 connector	3-pin male M8 connector	3-pin male M8 connector	3-pin male M8 connector	3-pin, unterminated cable
Operating temperature [°C (°F)]	-25 - 85 (-13 - 185)	-25 - 80 (-13 - 176)	-25 - 70 (-13 - 158)	-25 - 70 (-13 - 158)	-25 - 70 (-13 - 158)	-25 - 70 (-13 - 158)	-25 - 70 (-13 - 158)
Weight [g]	38	38	16	16	13	13	25



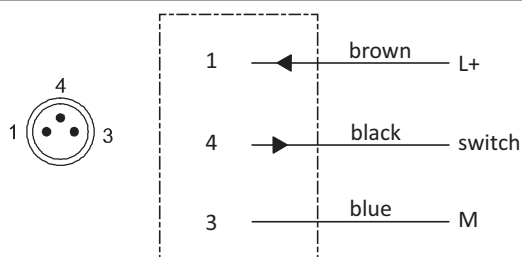
Technical data

Item no.	GS04.001	GS04.002	GS04.007	GS04.008	GS04.009	GS04.010	GR04.193P
Accessories	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570	Plug connector: 20.527

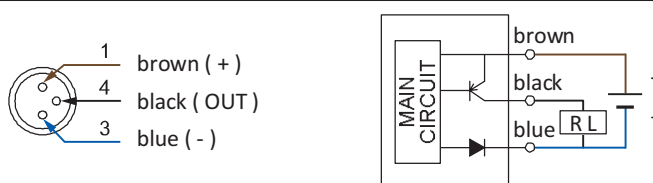
GS04.007: Data and parameters for IO-Link

Process data		Readable parameters	Programmable parameters	
Bit 0	Unsecured switching distance reached	Sensor temperature	Switching logic	NO NC
Bit 1	Safe switching distance reached	Maximum sensor temperature	Delay mode	No delay T-OFF delay T-ON delay T-ON/-OFF delay
		Detection counter	Delay time	1...1632 ms
			Detection counter	Reset

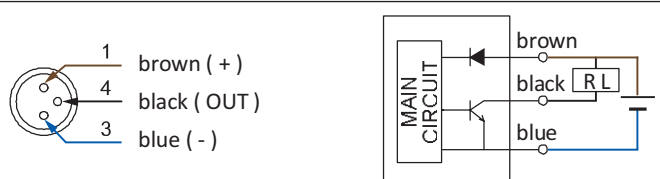
Connection diagram for GS04.007 and GS04.008



Pin assignment and connection diagram for PNP GS04.001, GS04.009 und GR04.193

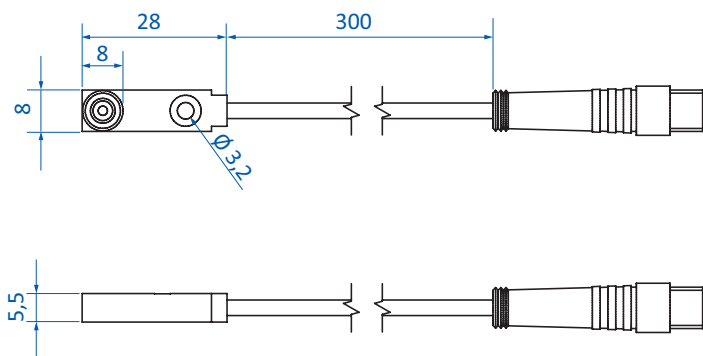


Pin assignment and connection diagram for NPN GS04.002, GS04.010 und GR04.193

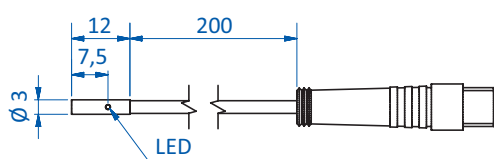




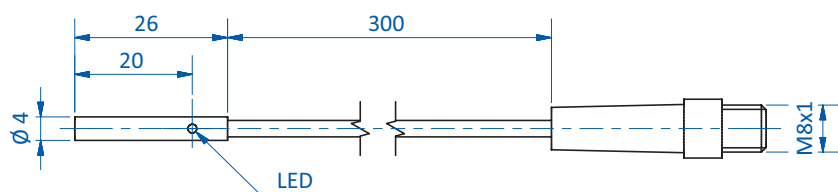
Dimensions



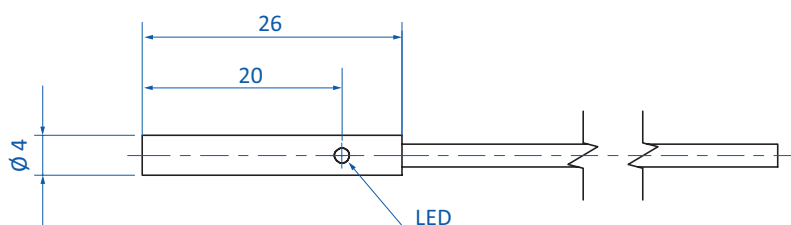
GS04.001 | GS04.002



GS04.007 | GS04.008



GS04.009 | GS04.010



GR04.193P