



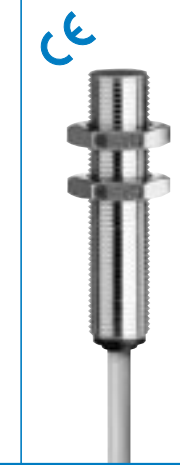

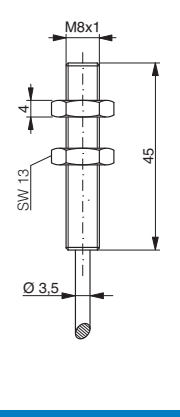
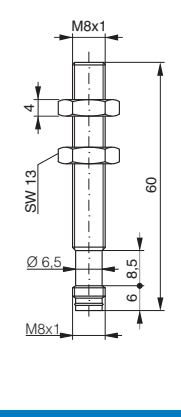
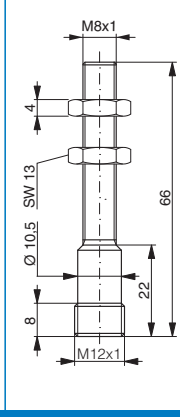
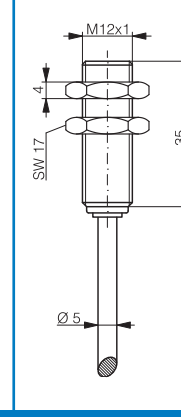
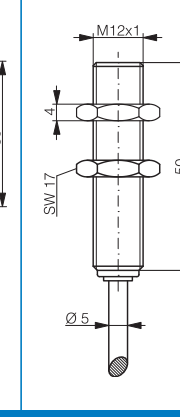
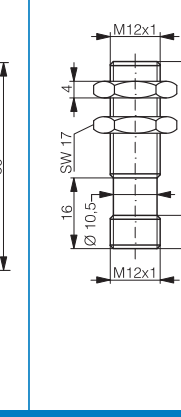




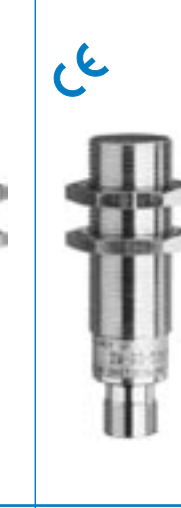

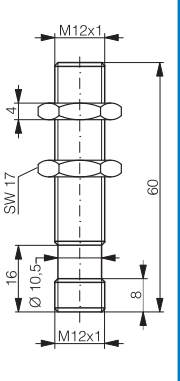
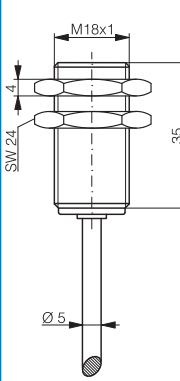
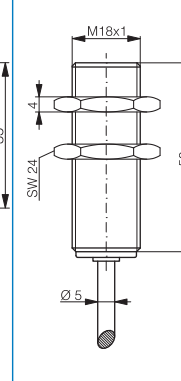
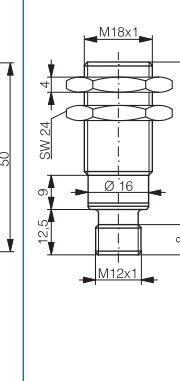
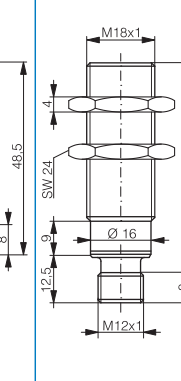
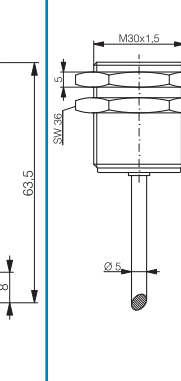


ANALOG SERIES

Housing size	M8			M12		
Sensing range mm	0 ... 4	0 ... 4	0 ... 4	0 ... 6	0 ... 6	0 ... 6
Housing material	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass
Connection ¹⁾	PUR cable type 3	Connector S8	Connector S12	PUR cable type 7	PUR cable type 7	Connector S12
Degree of protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Bandwidth (-3 dB)	1,600 Hz (at s=2 mm)	1,600 Hz (at s=2 mm)	1,600 Hz (at s=2 mm)	1,000 Hz (at s=3 mm)	1,000 Hz (at s=3 mm)	1,000 Hz (at s=3 mm)
Mounting	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable
Technical data ²⁾	Table 7	Table 7	Table 7	Table 7	Table 7	Table 7
Voltage output	0...5 V / 0...10 V	0...5 V / 0...10 V	0...5 V / 0...10 V	0...5 V / 0...10 V	0...5 V / 0...10 V	0...5 V / 0...10 V
Current output	---	---	---	1 ... 5 mA	1...5 mA / 4...20 mA	1...5 mA
Wiring ³⁾	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5
Supply voltage range	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*
Ambient temperature range	-25...+70°C (-13...+158°F)	-25...+70°C (-13...+158°F)	-25...+70°C (-13...+158°F)	-25...+70°C (-13...+158°F)	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)
¹⁾ Standard cable length 2 m. Non-standard cable lengths and types on request. ²⁾ see page 76 ³⁾ see page 77 ⁴⁾ see page 146						
Dimensions:						
Part references: (bold : preferred types)						
Non-linearized:						
Outputs 0...5 V / 1...5 mA	DW-AD-509-M8***	DW-AS-509-M8-001***	DW-AS-509-M8***	DW-AD-509-M12-120	DW-AD-509-M12	DW-AS-509-M12-120
Outputs 0...10 V / 4...20 mA	DW-AD-509-M8-390***	DW-AS-509-M8-390***	DW-AS-509-M8-393***	DW-AD-509-M12-320***	DW-AD-509-M12-390	DW-AS-509-M12-320***
Compatible connectors ⁴⁾		A ... D	G ... N			M, N

* DW-A#-509-M##-320/39# ** Depending on operating conditions, limited temperature range for DW-A#-509-M##-320/390 (see data sheets) *** without current output

For all these products, you will find detailed data sheets, application notes, dimensional drawings, cross-reference lists, part references, new items, special executions, extensive additional technical information, specifications concerning quality, safety and standards, as well as the addresses of our agents, and much more besides, on our Internet website at www.contrinex.com. The website contents are constantly up-dated and extended.

Housing size	M12			M18			
Sensing range mm	0 ... 6	0 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 20	
Housing material	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	
Connection ¹⁾	Connector S12	PUR cable type 7	PUR cable type 7	Connector S12	Connector S12	PUR cable type 7	
Degree of protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	
Bandwidth (-3 dB)	1,000 Hz (at s=3 mm)	500 Hz (at s=5 mm)	500 Hz (at s=5 mm)	500 Hz (at s=5 mm)	500 Hz (at s=5 mm)	200 Hz (at s=10 mm)	
Mounting	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	
Technical data ²⁾	Table 7	Table 7	Table 7	Table 7	Table 7	Table 7	
Voltage output	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	
Current output	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	
Wiring ³⁾	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5	
Supply voltage range	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	
Ambient temperature range	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	
¹⁾ Standard cable length 2 m. Non-standard cable lengths and types on request. ²⁾ see page 76 ³⁾ see page 77 ⁴⁾ see page 146							
	Dimensions:						
	Part references: (bold : preferred types)						
	Non-linearized:						
	Outputs 0...5 V / 1...5 mA	DW-AS-509-M12	DW-AD-509-M18-120	DW-AD-509-M18	DW-AS-509-M18-120	DW-AS-509-M18-002	DW-AD-509-M30-120
	Outputs 0...10 V / 4...20 mA	DW-AS-509-M12-390	DW-AD-509-M18-320	DW-AD-509-M18-390	DW-AS-509-M18-320	DW-AS-509-M18-390	DW-AD-509-M30-320
Compatible connectors ⁴⁾	M, N			M, N	M, N		

* DW-A#-509-M##-320/390

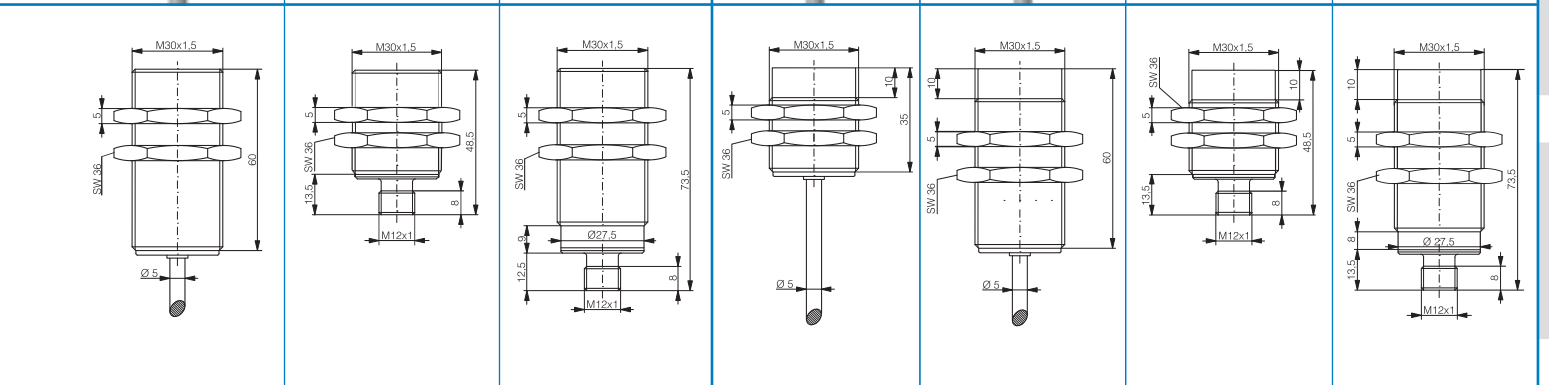
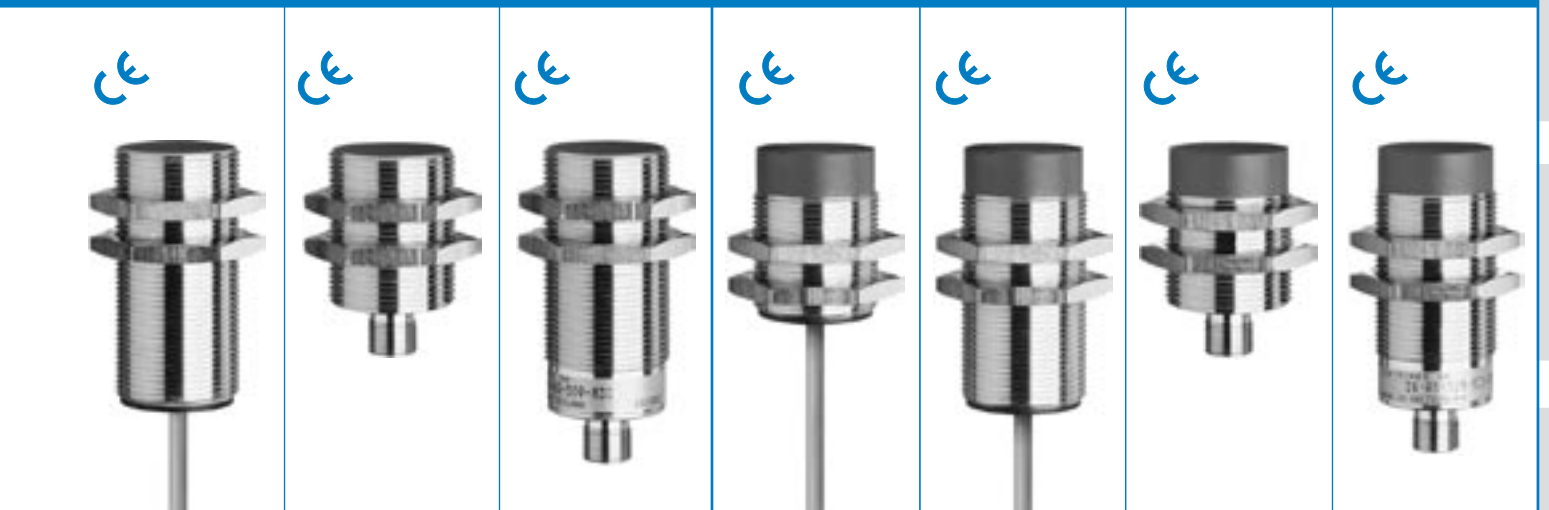
** Depending on operating conditions, limited temperature range for types DW-A#-509-M##-320/390 (see data sheets)

ANALOG SERIES

M30

M30

0 ... 20	0 ... 20	0 ... 20	0 ... 40	0 ... 40	0 ... 40	0 ... 40
Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass
PUR cable type 7	Connector S12	Connector S12	PUR cable type 7	PUR cable type 7	Connector S12	Connector S12
IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
200 Hz (at s=10 mm)	200 Hz (at s=10 mm)	200 Hz (at s=10 mm)	100 Hz (at s=20 mm)	100 Hz (at s=20 mm)	100 Hz (at s=20 mm)	100 Hz (at s=20 mm)
Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Non-embeddable	Non-embeddable	Non-embeddable	Non-embeddable
Table 7	Table 7	Table 7	Table 7	Table 7	Table 7	Table 7
0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V	0 ... 5 V / 0 ... 10 V
1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA	1 ... 5 mA / 4 ... 20 mA
Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5	Diagram 5
10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*	10...30 / 15...30 VDC*
-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**	-25...+70°C (-13...+158°F)**



DW-AD-509-M30	DW-AS-509-M30-120	DW-AS-509-M30-002	DW-AD-519-M30-120	DW-AD-519-M30	DW-AS-519-M30-120	DW-AS-519-M30-002
DW-AD-509-M30-390	DW-AS-509-M30-320	DW-AS-509-M30-390	DW-AD-519-M30-320	DW-AD-519-M30-390	DW-AS-519-M30-320	DW-AS-519-M30-390
	M, N	M, N			M, N	M, N

* DW-A#-5#9-M##-320/390 ** Depending on operating conditions, limited temperature range for DW-A#-5#9-M##-320/390 (see data sheets)

For all these products, you will find detailed data sheets, application notes, dimensional drawings, cross-reference lists, part references, new items, special executions, extensive additional technical information, specifications concerning quality, safety and standards, as well as the addresses of our agents, and much more besides, on our Internet website at www.contrinex.com. The website contents are constantly up-dated and extended.