

M8

Size		
Operating distance mm	1.5	
Housing material	Stainless steel V2A	
Connection ¹⁾	PVC cable type 2	
Degree of protection	IP 67	
Mounting	Embeddable	
Max. switching frequency	5,000 Hz	10,000 Hz
Technical data ²⁾	Table 1	Table 5
Wiring ³⁾	Diagram 1	Diagram 4
LED	Built-in	---
Supply voltage range	10 ... 30 VDC	7.7 ... 9 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 1 / ≥ 2.2 mA*

¹⁾ Standard cable length 2 m.
Non-standard cable lengths
and types on request.

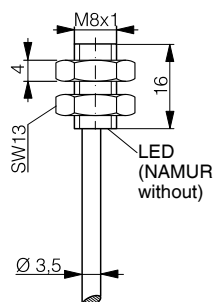
²⁾ see page 68

³⁾ see page 69

⁴⁾ see page 112



Dimensions:



Part references:

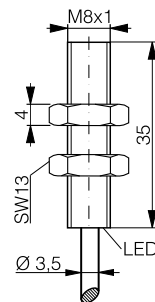
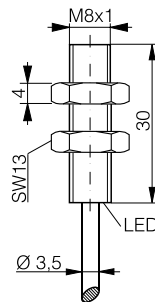
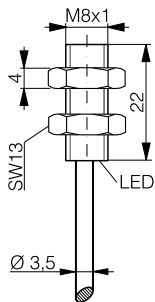
(**bold**: preferred types)

NPN N.O.	DW-AD-421-M8	
NPN N.C.	DW-AD-422-M8	
PNP N.O.	DW-AD-423-M8	
PNP N.C.	DW-AD-424-M8	
NAMUR		DW-AD-425-M8
AC/DC 2-wire N.O.		
AC/DC 2-wire N.C.		
Compatible connectors ⁴⁾		

*damped / non-damped

M8

1.5	1.5	1.5
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
PVC cable type 2	PVC cable type 2	PVC cable type 2
IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable
5,000 Hz	5,000 Hz	5,000 Hz
Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 1
Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA



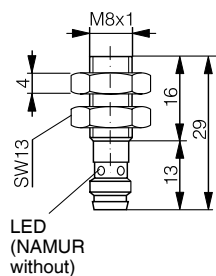
DW-AD-601-M8-121	DW-AD-601-M8-122	DW-AD-601-M8
DW-AD-602-M8-121	DW-AD-602-M8-122	DW-AD-602-M8
DW-AD-603-M8-121	DW-AD-603-M8-122	DW-AD-603-M8
DW-AD-604-M8-121	DW-AD-604-M8-122	DW-AD-604-M8

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1.5

Stainless steel V2A	
Connector S8	
IP 67	
Embeddable	
5,000 Hz	10,000 Hz
Table 1	Table 5
Diagram 1	Diagram 4
Built-in	---
10 ... 30 VDC	7.7 ... 9 VDC
-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 1 / ≥ 2.2 mA*



DW-AS-421-M8-001

DW-AS-422-M8-001

DW-AS-423-M8-001

DW-AS-424-M8-001

DW-AS-425-M8-001

A ... D A, B

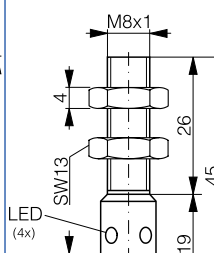
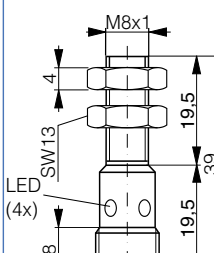
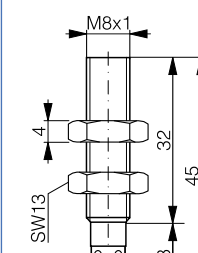
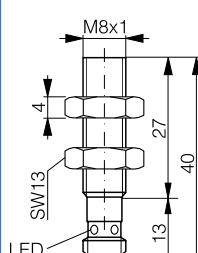
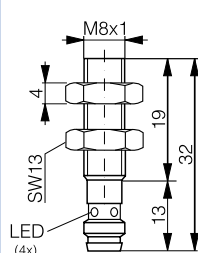
*damped / non-damped

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1.5

Stainless steel V2A	Stainless steel V2A	Nickel-plated brass	Stainless steel V2A	Nickel-plated brass
Connector S8	Connector S8	Connector S8	Connector S12	Connector S12
IP 67	IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable	Embeddable
5,000 Hz	5,000 Hz	5,000 Hz	5,000 Hz	5,000 Hz
Table 1	Table 1	Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 1	Diagram 2	Diagram 2
Built-in	Built-in	Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA



DW-AS-601-M8-123

DW-AS-601-M8-124

DW-AS-601-M8-001

DW-AS-601-M8-120

DW-AS-601-M8

DW-AS-602-M8-123

DW-AS-602-M8-124

DW-AS-602-M8-001

DW-AS-602-M8

DW-AS-603-M8-123

DW-AS-603-M8-124

DW-AS-603-M8-001

DW-AS-603-M8-120

DW-AS-603-M8

DW-AS-604-M8-123

DW-AS-604-M8-124

DW-AS-604-M8-001

DW-AS-604-M8

A ... D

A ... D

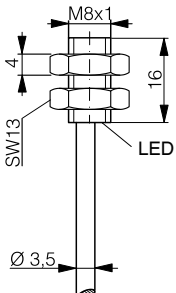
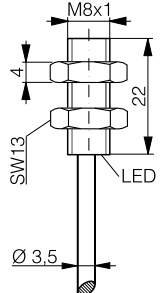
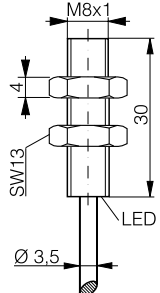
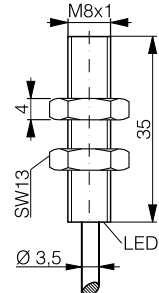
A ... D

G ... N

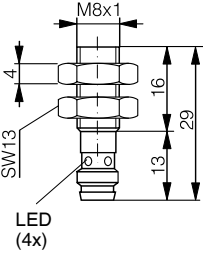
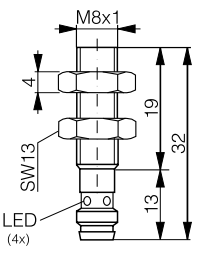
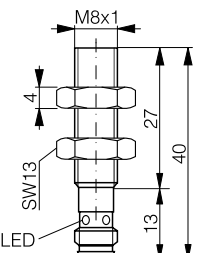
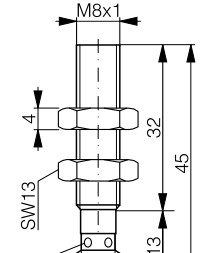
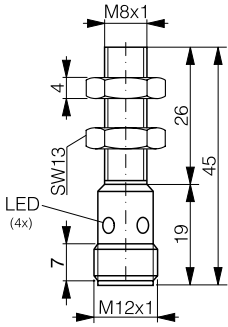
G ... N (N.O.); K ... N (N.C.)

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.

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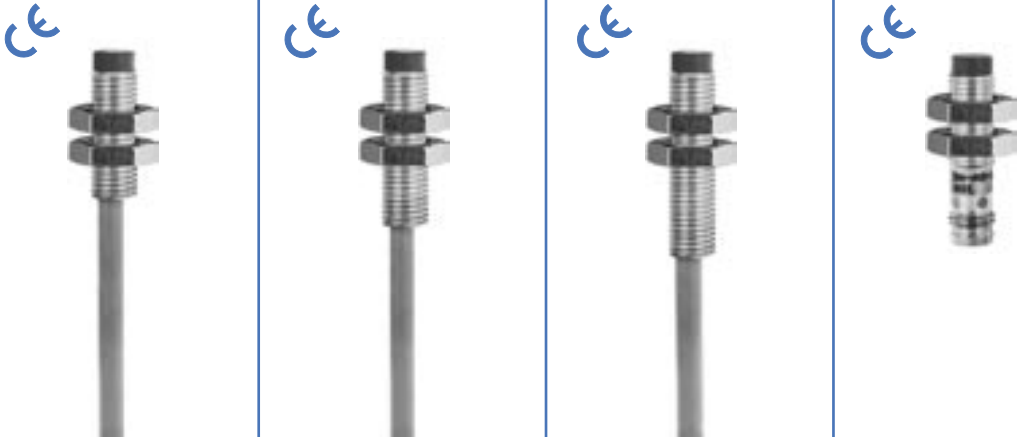
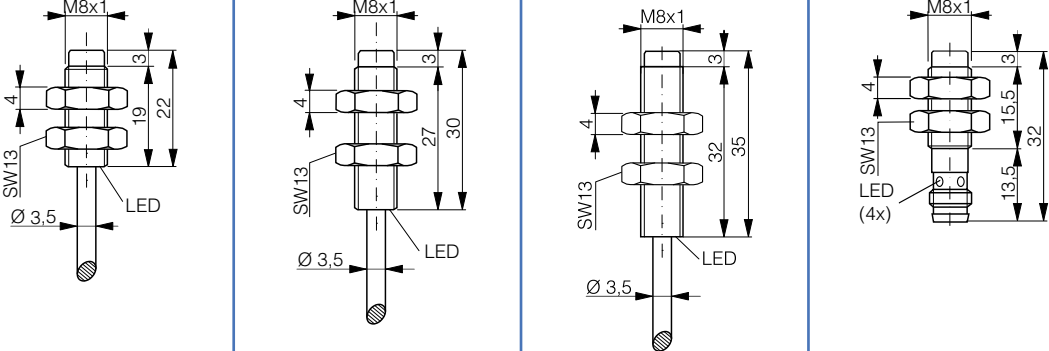
Size				
Operating distance mm	2	2	2	2
Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection ¹⁾	PVC cable type 2	PVC cable type 2	PVC cable type 2	PVC cable type 2
Degree of protection	IP 67	IP 67	IP 67	IP 67
Mounting	Embeddable	Embeddable	Embeddable	Embeddable
Max. switching frequency	3,000 Hz	3,000 Hz	3,000 Hz	3,000 Hz
Technical data ²⁾	Table 1	Table 1	Table 1	Table 1
Wiring ³⁾	Diagram 1	Diagram 1	Diagram 1	Diagram 1
LED	Built-in	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
¹⁾ Standard cable length 2 m. Non-standard cable lengths and types on request. ²⁾ see page 68 ³⁾ see page 69 ⁴⁾ see page 112				
	increased distance	increased distance	increased distance	increased distance
				
	Dimensions:	Dimensions:	Dimensions:	Dimensions:
Part references: (bold : preferred types)				
NPN N.O.	DW-AD-621-M8-120	DW-AD-621-M8-121	DW-AD-621-M8-122	DW-AD-621-M8
NPN N.C.	DW-AD-622-M8-120	DW-AD-622-M8-121	DW-AD-622-M8-122	DW-AD-622-M8
PNP N.O.	DW-AD-623-M8-120	DW-AD-623-M8-121	DW-AD-623-M8-122	DW-AD-623-M8
PNP N.C.	DW-AD-624-M8-120	DW-AD-624-M8-121	DW-AD-624-M8-122	DW-AD-624-M8
NAMUR				
AC/DC 2-wire N.O.				
AC/DC 2-wire N.C.				
Compatible connectors ⁴⁾				

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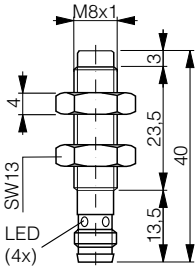
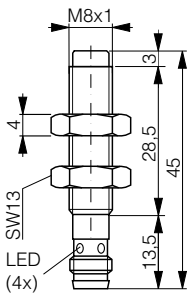
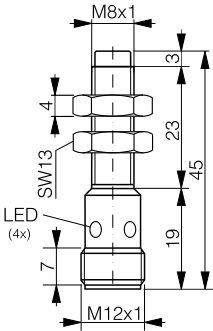
2	2	2	2	2
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connector S8	Connector S8	Connector S8	Connector S8	Connector S12
IP 67	IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable	Embeddable
3,000 Hz	3,000 Hz	3,000 Hz	3,000 Hz	3,000 Hz
Table 1	Table 1	Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 1	Diagram 1	Diagram 2
Built-in	Built-in	Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
				
				
increased distance	increased distance	increased distance	increased distance	increased distance
				
DW-AS-621-M8-129	DW-AS-621-M8-123	DW-AS-621-M8-124	DW-AS-621-M8-001	DW-AS-621-M8
DW-AS-622-M8-129	DW-AS-622-M8-123	DW-AS-622-M8-124	DW-AS-622-M8-001	DW-AS-622-M8
DW-AS-623-M8-129	DW-AS-623-M8-123	DW-AS-623-M8-124	DW-AS-623-M8-001	DW-AS-623-M8
DW-AS-624-M8-129	DW-AS-624-M8-123	DW-AS-624-M8-124	DW-AS-624-M8-001	DW-AS-624-M8
A ... D	A ... D	A ... D	A ... D	G ... N (N.O.); K ... N (N.C.)

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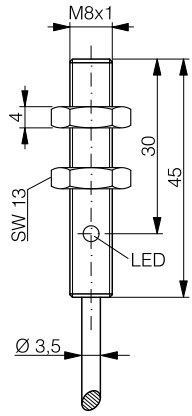
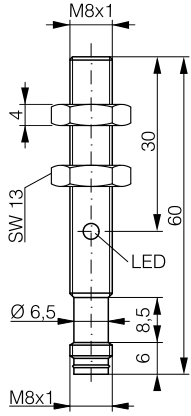
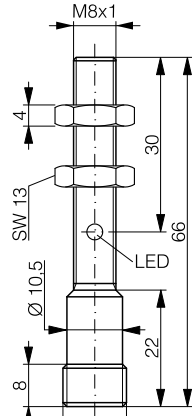
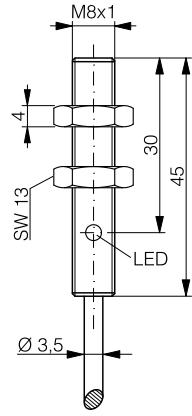
Size				
Operating distance mm	2.5	2.5	2.5	2.5
Housing material	Stainless steel V2A	Stainless steel V2A	Nickel-plated brass	Stainless steel V2A
Connection ¹⁾	PVC cable type 2	PVC cable type 2	PVC cable type 2	Connector S8
Degree of protection	IP 67	IP 67	IP 67	IP 67
Mounting	Non-embeddable	Non-embeddable	Non-embeddable	Non-embeddable
Max. switching frequency	3,000 Hz	3,000 Hz	3,000 Hz	3,000 Hz
Technical data ²⁾	Table 1	Table 1	Table 1	Table 1
Wiring ³⁾	Diagram 1	Diagram 1	Diagram 1	Diagram 1
LED	Built-in	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
¹⁾ Standard cable length 2 m. Non-standard cable lengths and types on request. ²⁾ see page 68 ³⁾ see page 69 ⁴⁾ see page 112				
Dimensions:				
Part references: (bold : preferred types)				
NPN N.O.	DW-AD-611-M8-121	DW-AD-611-M8-122	DW-AD-611-M8	DW-AS-611-M8-123
NPN N.C.	DW-AD-612-M8-121	DW-AD-612-M8-122	DW-AD-612-M8	DW-AS-612-M8-123
PNP N.O.	DW-AD-613-M8-121	DW-AD-613-M8-122	DW-AD-613-M8	DW-AS-613-M8-123
PNP N.C.	DW-AD-614-M8-121	DW-AD-614-M8-122	DW-AD-614-M8	DW-AS-614-M8-123
NAMUR				
AC/DC 2-wire N.O.				
AC/DC 2-wire N.C.				
Compatible connectors ⁴⁾				A ... D

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2.5	2.5	2.5		
Stainless steel V2A	Nickel-plated brass	Nickel-plated brass		
Connector S8	Connector S8	Connector S12		
IP 67	IP 67	IP 67		
Non-embeddable	Non-embeddable	Non-embeddable		
3,000 Hz	3,000 Hz	3,000 Hz		
Table 1	Table 1	Table 1		
Diagram 1	Diagram 1	Diagram 2		
Built-in	Built-in	Built-in		
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC		
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C		
≤ 200 mA	≤ 200 mA	≤ 200 mA		
				
				
				
DW-AS-611-M8-124	DW-AS-611-M8-001	DW-AS-611-M8		
DW-AS-612-M8-124	DW-AS-612-M8-001	DW-AS-612-M8		
DW-AS-613-M8-124	DW-AS-613-M8-001	DW-AS-613-M8		
DW-AS-614-M8-124	DW-AS-614-M8-001	DW-AS-614-M8		
A ... D	A ... D	G ... N (N.O.); K ... N (N.C.)		

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M8

Size				
Operating distance mm	3	3	3	4
Housing material	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Chrome-plated brass
Connection ¹⁾	PVC cable type 2	Connector S8	Connector S12	PVC cable type 2
Degree of protection	IP 67	IP 67	IP 67	IP 67
Mounting	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Quasi-embeddable
Max. switching frequency	1,000 Hz	1,000 Hz	1,000 Hz	500 Hz
Technical data ²⁾	Table 1	Table 1	Table 1	Table 1
Wiring ³⁾	Diagram 1	Diagram 1	Diagram 2	Diagram 1
LED	Built-in	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
¹⁾ Standard cable length 2 m. Non-standard cable lengths and types on request. ²⁾ see page 68 ³⁾ see page 69 ⁴⁾ see page 112				
Dimensions:				
Part references: (bold : preferred types)				
NPN N.O.	DW-AD-501-M8	DW-AS-501-M8-001	DW-AS-501-M8	
NPN N.C.	DW-AD-502-M8	DW-AS-502-M8-001	DW-AS-502-M8	
PNP N.O.	DW-AD-503-M8	DW-AS-503-M8-001	DW-AS-503-M8	
PNP N.C.	DW-AD-504-M8	DW-AS-504-M8-001	DW-AS-504-M8	
NAMUR				
AC/DC 2-wire N.O.				
AC/DC 2-wire N.C.				
Compatible connectors ⁴⁾		A ... D	G ... N (N.O.); K ... N (N.C.)	

SERIES 520

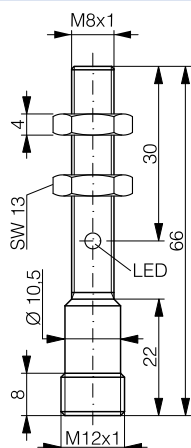
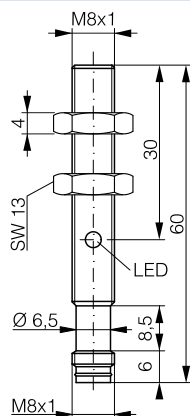
M8

4	4
Chrome-plated brass	Chrome-plated brass
Connector S8	Connector S12
IP 67	IP 67
Quasi-embeddable	Quasi-embeddable
500 Hz	500 Hz
Table 1	Table 1
Diagram 1	Diagram 2
Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA



4 x distance

4 x distance



DW-AS-523-M8-001

DW-AS-523-M8

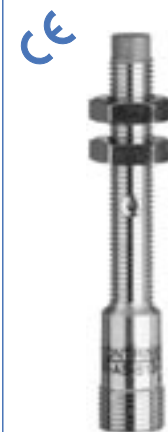
A ... D

G ... N

SERIES 500

M8

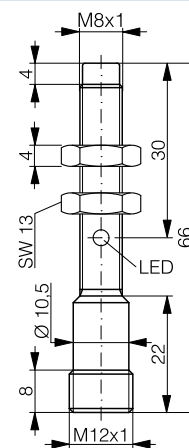
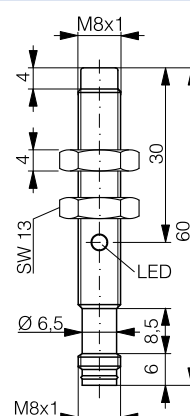
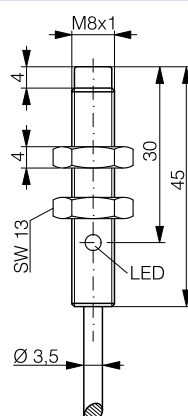
6	6	6
Chrome-plated brass	Chrome-plated brass	Chrome-plated brass
PVC cable type 2	Connector S8	Connector S12
IP 67	IP 67	IP 67
Non-embeddable	Non-embeddable	Non-embeddable
500 Hz	500 Hz	500 Hz
Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 2
Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA



long distance

long distance

long distance



DW-AD-511-M8

DW-AS-511-M8-001

DW-AS-511-M8

DW-AD-512-M8

DW-AS-512-M8-001

DW-AS-512-M8

DW-AD-513-M8

DW-AS-513-M8-001

DW-AS-513-M8

DW-AD-514-M8

DW-AS-514-M8-001

DW-AS-514-M8

A ... D

G ... N (N.O.); K ... N (N.C.)

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□ 8x8

Size		
Operating distance mm	1.5	1.5
Housing material	Nickel-plated brass	Nickel-plated brass
Connection ¹⁾	PVC cable type 2	Connector S8
Degree of protection	IP 67	IP 67
Mounting	Embeddable	Embeddable
Max. switching frequency	5,000 Hz	5,000 Hz
Technical data ²⁾	Table 1	Table 1
Wiring ³⁾	Diagram 1	Diagram 1
LED	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA

¹⁾ Standard cable length 2 m.
Non-standard cable lengths
and types on request.

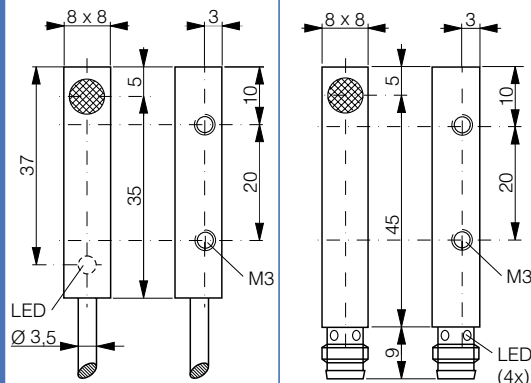
²⁾ see page 68

³⁾ see page 69

⁴⁾ see page 112



Dimensions:



Part references:
(**bold**: preferred types)

NPN N.O.	DW-AD-601-C8	DW-AS-601-C8-001
NPN N.C.	DW-AD-602-C8	DW-AS-602-C8-001
PNP N.O.	DW-AD-603-C8	DW-AS-603-C8-001
PNP N.C.	DW-AD-604-C8	DW-AS-604-C8-001
NAMUR		
AC/DC 2-wire N.O.		
AC/DC 2-wire N.C.		
Compatible connectors ⁴⁾		A ... D

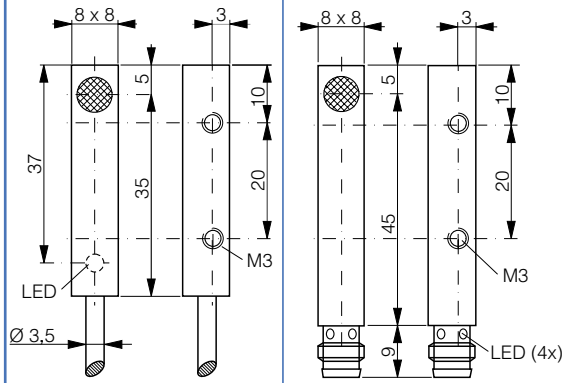
□ 8x8

Size		
Operating distance mm	2	2
Housing material	Chrome-plated brass	Chrome-plated brass
Connection ¹⁾	PVC cable type 2	Connector S8
Degree of protection	IP 67	IP 67
Mounting	Embeddable	Embeddable
Max. switching frequency	3,000 Hz	3,000 Hz
Technical data ²⁾	Table 1	Table 1
Wiring ³⁾	Diagram 1	Diagram 1
LED	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA



increased distance

increased distance



DW-AD-621-C8	DW-AS-621-C8-001
DW-AD-622-C8	DW-AS-622-C8-001
DW-AD-623-C8	DW-AS-623-C8-001
DW-AD-624-C8	DW-AS-624-C8-001
	A ... D

SERIES 500

□8x8

3

3

Chrome-plated brass

Chrome-plated brass

PVC cable type 2

Connector S8

IP 67

IP 67

Quasi-embeddable

Quasi-embeddable

1,000 Hz

1,000 Hz

Table 1

Table 1

Diagram 1

Diagram 1

Built-in

Built-in

10 ... 30 VDC

10 ... 30 VDC

-25 ... +70 °C

-25 ... +70 °C

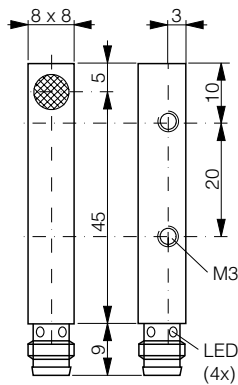
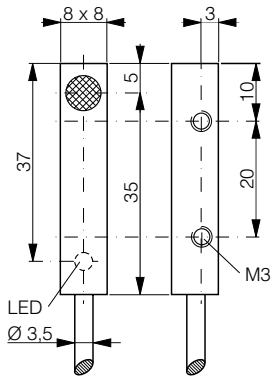
≤ 200 mA

≤ 200 mA



long distance

long distance



DW-AD-501-C8

DW-AS-501-C8

DW-AD-502-C8

DW-AS-502-C8

DW-AD-503-C8

DW-AS-503-C8

DW-AD-504-C8

DW-AS-504-C8

A ... D

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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.