

5 X 5

Ø 6.5

1.5

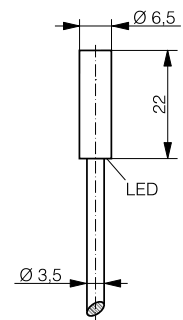
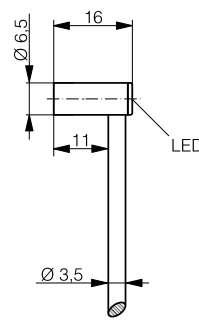
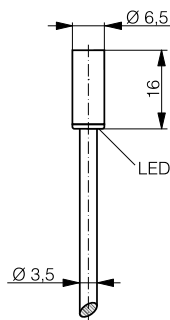
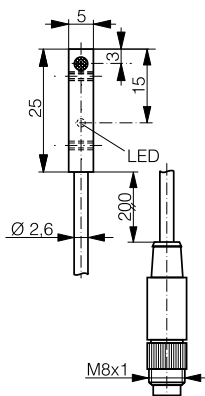
1.5

1.5

1.5



INCREASED DISTANCE



Chrome-plated brass	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
PUR cable type 1 / Connector S8	PVC cable type 2	PVC cable type 2	PVC cable type 2
IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable
3,000 Hz	5,000 Hz	5,000 Hz	5,000 Hz
Table 1	Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 1	Diagram 1
Built-in	Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
CE, UL, RoHS	CE, UL, RoHS	CE, UL, RoHS	CE, CCC, UL, RoHS
<b>DW-AV-621-C5-276</b>	<b>DW-AD-421-065</b>	<b>DW-AD-421-065-400</b>	<b>DW-AD-601-065-121</b>
DW-AV-622-C5-276	DW-AD-422-065	DW-AD-422-065-400	DW-AD-602-065-121
<b>DW-AV-623-C5-276</b>	<b>DW-AD-423-065</b>	<b>DW-AD-423-065-400</b>	<b>DW-AD-603-065-121</b>
DW-AV-624-C5-276	DW-AD-424-065	DW-AD-424-065-400	DW-AD-604-065-121
A, B			

Inductive

Photoelectric

Optical fibers

Ultrasonic

Capacitive

Cables & connectors

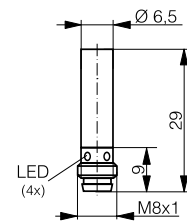
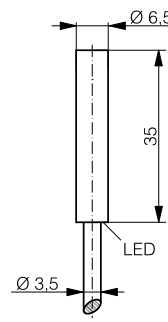
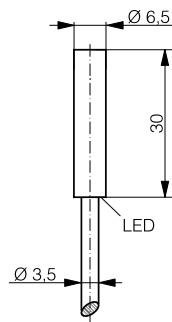
Accessories

Glossary

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HOUSING SIZE	Ø 6.5		
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OPERATING DISTANCE MM	1.5	1.5	1.5
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- 1) Standard cable length 2 m. Non-standard cable lengths and types on request. Cable type see page 271.
- 2) see page 132
- 3) see page 133
- 4) see page 268

### TECHNICAL DATA

Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection <sup>1)</sup>	PVC cable type 2	PVC cable type 2	Connector S8
Degree of protection	IP 67	IP 67	IP 67
Mounting	Embeddable	Embeddable	Embeddable
Max. switching frequency	5,000 Hz	5,000 Hz	5,000 Hz
Additional technical data <sup>2)</sup>	Table 1	Table 1	Table 1
Wiring <sup>3)</sup>	Diagram 1	Diagram 1	Diagram 1
LED	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
Approvals	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS	CE, UL, RoHS

### PART REFERENCES: (BOLD: PREFERRED TYPES)

NPN N.O.	<b>DW-AD-601-065-122</b>	<b>DW-AD-601-065</b>	<b>DW-AS-421-065-001</b>
NPN N.C.	DW-AD-602-065-122	DW-AD-602-065	DW-AS-422-065-001
PNP N.O.	<b>DW-AD-603-065-122</b>	<b>DW-AD-603-065</b>	<b>DW-AS-423-065-001</b>
PNP N.C.	DW-AD-604-065-122	DW-AD-604-065	DW-AS-424-065-001
Compatible connectors <sup>4)</sup>			A, B

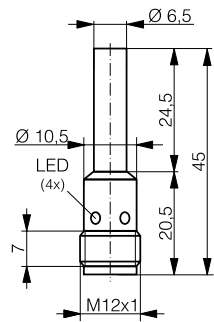
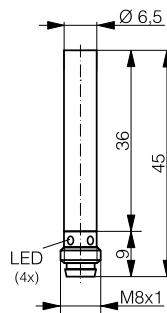
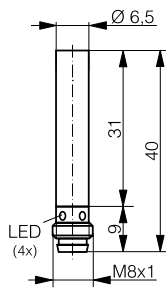
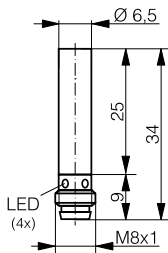
## Ø 6.5

1.5

1.5

1.5

1.5



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

<b>DW-AS-601-065-123</b>	<b>DW-AS-601-065-124</b>	<b>DW-AS-601-065-001</b>	<b>DW-AS-601-065</b>
DW-AS-602-065-123	DW-AS-602-065-124	DW-AS-602-065-001	DW-AS-602-065
<b>DW-AS-603-065-123</b>	<b>DW-AS-603-065-124</b>	<b>DW-AS-603-065-001</b>	<b>DW-AS-603-065</b>
DW-AS-604-065-123	DW-AS-604-065-124	DW-AS-604-065-001	DW-AS-604-065
A, B	A, B	A, B	G, H, M, N (N.O.); M, N (N.C.)

Inductive

Photoelectric

Optical fibers

Ultrasonic

Capacitive

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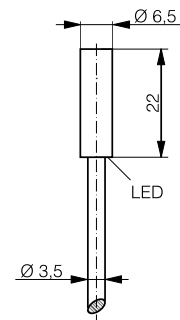
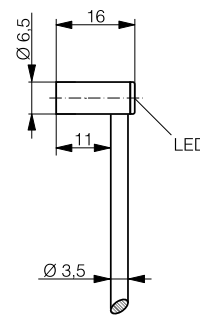
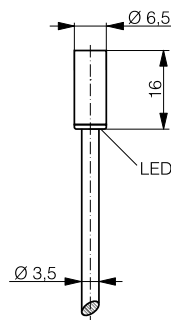
HOUSING SIZE	Ø 6.5		
OPERATING DISTANCE MM	2	2	2



INCREASED DISTANCE

INCREASED DISTANCE

INCREASED DISTANCE



- 1) Standard cable length 2 m. Non-standard cable lengths and types on request. Cable type see page 271.
- 2) see page 132
- 3) see page 133
- 4) see page 268

### TECHNICAL DATA

Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection <sup>1)</sup>	PVC cable type 2	PVC cable type 2	PVC cable type 2
Degree of protection	IP 67	IP 67	IP 67
Mounting	Embeddable	Embeddable	Embeddable
Max. switching frequency	5,000 Hz	5,000 Hz	5,000 Hz
Additional technical data <sup>2)</sup>	Table 1	Table 1	Table 1
Wiring <sup>3)</sup>	Diagram 1	Diagram 1	Diagram 1
LED	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
Approvals	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS

### PART REFERENCES: (BOLD: PREFERRED TYPES)

NPN N.O.	<b>DW-AD-621-065-120</b>	<b>DW-AD-621-065-400</b>	<b>DW-AD-621-065-121</b>
NPN N.C.	DW-AD-622-065-120	DW-AD-622-065-400	DW-AD-622-065-121
PNP N.O.	<b>DW-AD-623-065-120</b>	<b>DW-AD-623-065-400</b>	<b>DW-AD-623-065-121</b>
PNP N.C.	DW-AD-624-065-120	DW-AD-624-065-400	DW-AD-624-065-121
Compatible connectors <sup>4)</sup>			

# Ø 6.5

2

2

2

2

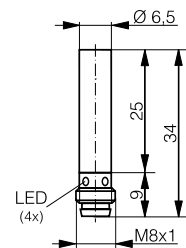
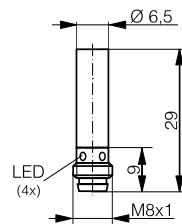
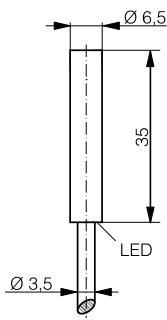
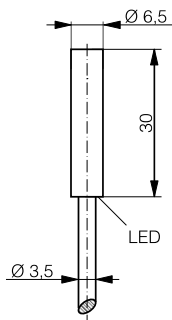


INCREASED DISTANCE

INCREASED DISTANCE

INCREASED DISTANCE

INCREASED DISTANCE



Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
PVC cable type 2	PVC cable type 2	Connector S8	Connector S8
IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable
5,000 Hz	5,000 Hz	5,000 Hz	5,000 Hz
Table 1	Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 1	Diagram 1
Built-in	Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
CE, CCC, UL, RoHS	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS

<b>DW-AD-621-065-122</b>	<b>DW-AD-621-065</b>	<b>DW-AS-621-065-129</b>	<b>DW-AS-621-065-123</b>
DW-AD-622-065-122	DW-AD-622-065	DW-AS-622-065-129	DW-AS-622-065-123
<b>DW-AD-623-065-122</b>	<b>DW-AD-623-065</b>	<b>DW-AS-623-065-129</b>	<b>DW-AS-623-065-123</b>
DW-AD-624-065-122	DW-AD-624-065	DW-AS-624-065-129	DW-AS-624-065-123
		A, B	A, B

Inductive

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Capacitive

Cables & connectors

Accessories

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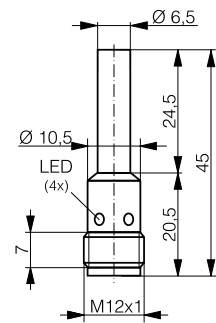
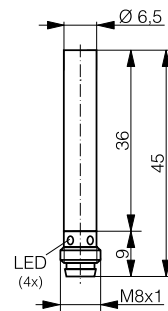
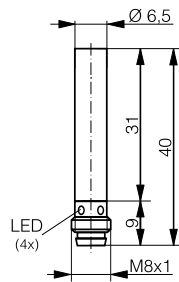
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HOUSING SIZE	Ø 6.5		
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OPERATING DISTANCE MM	2	2	2
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INCREASED DISTANCE	INCREASED DISTANCE	INCREASED DISTANCE
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- 1) Standard cable length 2 m. Non-standard cable lengths and types on request. Cable type see page 271.
- 2) see page 132
- 3) see page 133
- 4) see page 268

TECHNICAL DATA			
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Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection <sup>1)</sup>	Connector S8	Connector S8	Connector S12
Degree of protection	IP 67	IP 67	IP 67
Mounting	Embeddable	Embeddable	Embeddable
Max. switching frequency	5,000 Hz	5,000 Hz	5,000 Hz
Additional technical data <sup>2)</sup>	Table 1	Table 1	Table 1
Wiring <sup>3)</sup>	Diagram 1	Diagram 1	Diagram 2
LED	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
Approvals	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS	CE, CCC, UL, RoHS

PART REFERENCES: (BOLD: PREFERRED TYPES)			
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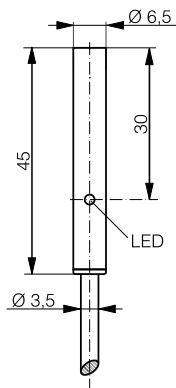
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NPN N.C.	DW-AS-622-065-124	DW-AS-622-065-001	DW-AS-622-065
PNP N.O.	<b>DW-AS-623-065-124</b>	<b>DW-AS-623-065-001</b>	<b>DW-AS-623-065</b>
PNP N.C.	DW-AS-624-065-124	DW-AS-624-065-001	DW-AS-624-065
Compatible connectors <sup>4)</sup>	A, B	A, B	G, H, M, N (N.O.); M, N (N.C.)

# Ø 6.5

3



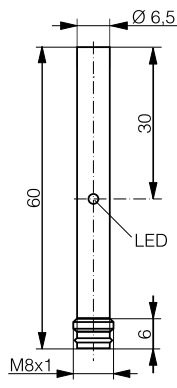
LONG DISTANCE



3



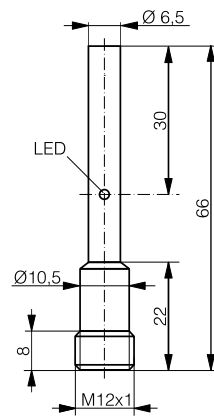
LONG DISTANCE



3



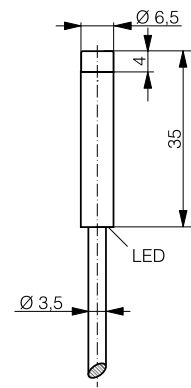
LONG DISTANCE



4



INCREASED DISTANCE



Chrome-plated brass	Chrome-plated brass	Chrome-plated brass	Stainless steel V2A
PVC cable type 2	Connector S8	Connector S12	PVC cable type 2
IP 67	IP 67	IP 67	IP 67
Quasi-embeddable	Quasi-embeddable	Quasi-embeddable	Non-embeddable
1,000 Hz	1,000 Hz	1,000 Hz	3,500 Hz
Table 1	Table 1	Table 1	Table 1
Diagram 1	Diagram 1	Diagram 2	Diagram 1
Built-in	Built-in	Built-in	Built-in
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
CE, UL, RoHS	CE, UL, RoHS	CE, UL, RoHS	CE, CCC, UL, RoHS

<b>DW-AD-501-065</b>	<b>DW-AS-501-065-001</b>	<b>DW-AS-501-065</b>	<b>DW-AD-631-065</b>
DW-AD-502-065	DW-AS-502-065-001	DW-AS-502-065	DW-AD-632-065
<b>DW-AD-503-065</b>	<b>DW-AS-503-065-001</b>	<b>DW-AS-503-065</b>	<b>DW-AD-633-065</b>
DW-AD-504-065	DW-AS-504-065-001	DW-AS-504-065	DW-AD-634-065
	A, B	G, H, M, N (N.O.); M, N (N.C.)	

Inductive

Photoelectric

Optical fibers

Ultrasonic

Capacitive

Cables & connectors

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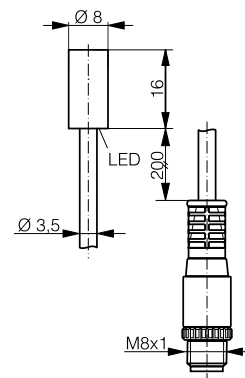
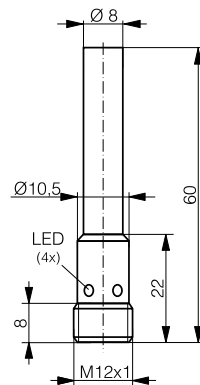
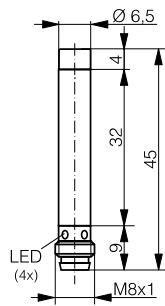
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HOUSING SIZE	Ø 6.5	Ø 8	
OPERATING DISTANCE MM	4	1.5	2



INCREASED DISTANCE

INCREASED DISTANCE



- 1) Standard cable length 2 m. Non-standard cable lengths and types on request. Cable type see page 271.
- 2) see page 132
- 3) see page 133
- 4) see page 268

TECHNICAL DATA			
Housing material	Stainless steel V2A	Stainless steel V2A	Chrome-plated brass
Connection <sup>1)</sup>	Connector S8	Connector S12	PVC cable type 2 / Connector S8
Degree of protection	IP 67	IP 67	IP 67
Mounting	Non-embeddable	Embeddable	Embeddable
Max. switching frequency	3,500 Hz	5,000 Hz	3,000 Hz
Additional technical data <sup>2)</sup>	Table 1	Table 1	Table 1
Wiring <sup>3)</sup>	Diagram 1	Diagram 2	Diagram 1
LED	Built-in	Built-in	Built-in
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
Approvals	CE, CCC, UL, RoHS	CE, UL, RoHS	CE, UL, RoHS

PART REFERENCES: (BOLD: PREFERRED TYPES)			
NPN N.O.	<b>DW-AS-631-065-001</b>		
NPN N.C.	DW-AS-632-065-001		
PNP N.O.	<b>DW-AS-633-065-001</b>	<b>DW-AS-603-080-168</b>	<b>DW-AV-623-080-236</b>
PNP N.C.	DW-AS-634-065-001		
Compatible connectors <sup>4)</sup>	A, B	G, H, M, N	A, B