


FULL FUNCTIONALITY, SMALLEST SIZE

MINIATURE INDUCTIVE SENSORS

KEY ADVANTAGES

Classics, Extra Distance and Full Inox

- ✓ High quality ASIC sensors with  IO-Link interface
- ✓ Smallest self-contained inductive sensors on the market
- ✓ Outstanding temperature stability from -25°C (-13°F) to +70°C (+158°F) or +85°C (+185°F) for Full Inox types
- ✓ High switching frequency up to 5000 Hz
- ✓ Electronics vacuum potted for optimum long-term reliability under high stress

Full Inox

- ✓ Extremely robust one-piece stainless-steel housing
- ✓ Corrosion resistant
- ✓ Water resistant
- ✓ Pressure resistant up to 120 bar (1740 psi)

RANGE OVERVIEW	Housing size	Classics	Extra Distance	Full Inox
MINIATURE	∅ 3 mm	p. 71-72		
	M4	p. 72-73		
	∅ 4 mm	p. 73-75	p. 75	p. 75
	M5	p. 76-77	p. 77	p. 78
	C5	p. 78-79		

FAMILY

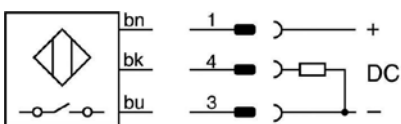
HOUSING SIZE MM

OPERATING DISTANCE MM

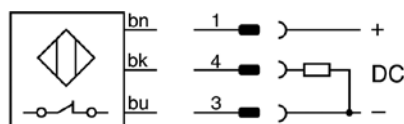
INDUCTIVE

WIRING DIAGRAMS

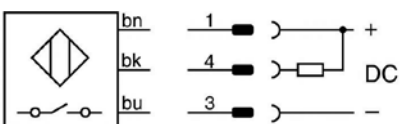
PNP NO



PNP NC



NPN NO



DATA

Housing material

Connection

Degree of protection

Mounting

Max. switching frequency

Supply voltage range

Ambient temperature range

Output current

PNP NO

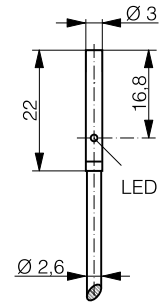
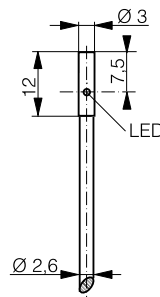
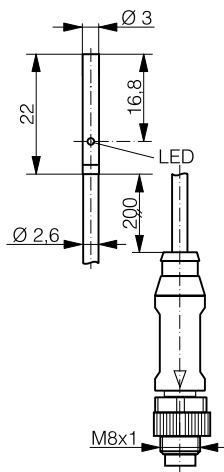
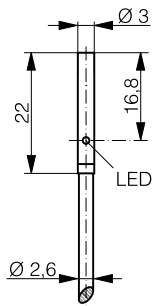
NPN NO

PNP NC

Other types available

MINIATURE

CLASSICS	CLASSICS	CLASSICS	CLASSICS
Ø 3	Ø 3	Ø 3	Ø 3
0.6	0.6	1	1



IO-Link	IO-Link	IO-Link	IO-Link
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
PUR cable	PUR cable / Connector S8	PUR cable	PUR cable
IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable
5000 Hz	5000 Hz	8000 Hz	3000 Hz
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 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
≤ 100 mA	≤ 100 mA	≤ 100 mA	≤ 100 mA
DW-AD-603-03	DW-AV-603-03-276	DW-AD-623-03-960	DW-AD-623-03
DW-AD-601-03	DW-AV-601-03-276	DW-AD-621-03-960	DW-AD-621-03
DW-AD-604-03			
NPN NC	PNP NC, NPN NC		PNP NC, NPN NC

Inductive

Photoelectric

Safety

RFID

Connectivity

Accessories

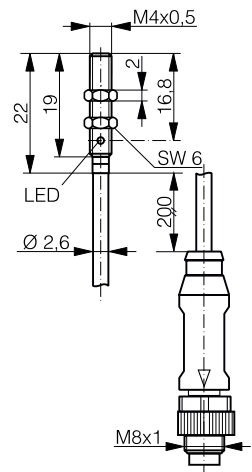
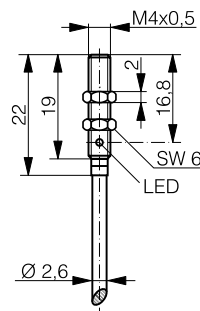
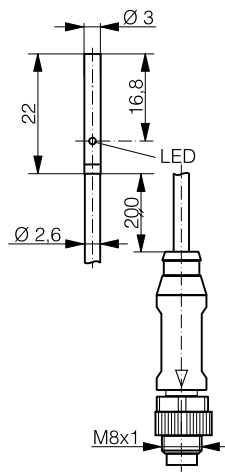
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INDUCTIVE

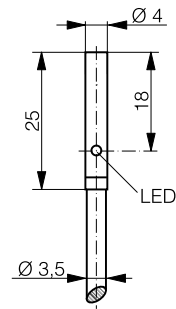
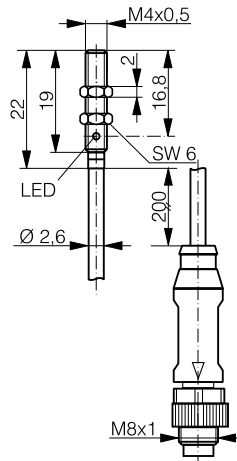
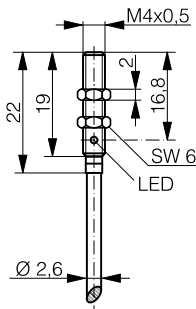
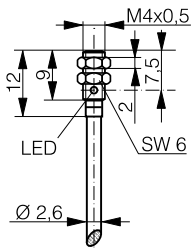
FAMILY	CLASSICS	CLASSICS	CLASSICS
HOUSING SIZE MM	Ø 3	M4	M4
OPERATING DISTANCE MM	1	0.6	0.6



DATA	IO-Link	IO-Link	IO-Link
Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection	PUR cable / Connector S8	PUR cable	PUR cable / Connector S8
Degree of protection	IP 67	IP 67	IP 67
Mounting	Embeddable	Embeddable	Embeddable
Max. switching frequency	3000 Hz	5000 Hz	5000 Hz
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F
Output current	≤ 100 mA	≤ 100 mA	≤ 100 mA
PNP NO	DW-AV-623-03-276	DW-AD-603-M4	DW-AV-603-M4-276
NPN NO	DW-AV-621-03-276	DW-AD-601-M4	DW-AV-601-M4-276
PNP NC		DW-AD-604-M4	
Other types available	PNP NC, NPN NC	NPN NC	PNP NC, NPN NC

MINIATURE

CLASSICS	CLASSICS	CLASSICS	CLASSICS
M4	M4	M4	Ø 4
1	1	1	0.8



Inductive

Photoelectric

Safety

RFID

Connectivity

Accessories

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IO-Link	IO-Link	IO-Link	IO-Link
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
PUR cable	PUR cable	PUR cable / Connector S8	PVC cable
IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Embeddable
8000 Hz	3000 Hz	3000 Hz	5000 Hz
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 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
≤ 100 mA	≤ 100 mA	≤ 100 mA	≤ 200 mA
DW-AD-623-M4-960	DW-AD-623-M4	DW-AV-623-M4-276	DW-AD-603-04
DW-AD-621-M4-960	DW-AD-621-M4	DW-AV-621-M4-276	DW-AD-601-04
			DW-AD-604-04
	PNP NC, NPN NC	PNP NC, NPN NC	NPN NC

MINIATURE

FAMILY

CLASSICS

CLASSICS

CLASSICS

HOUSING SIZE MM

Ø 4

Ø 4

Ø 4

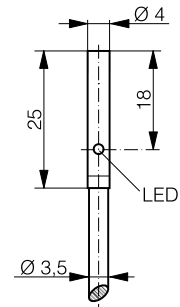
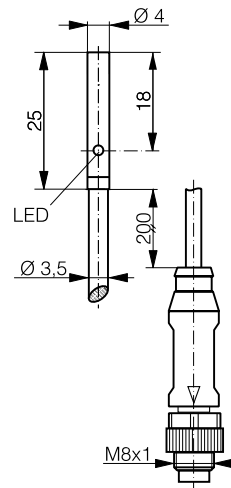
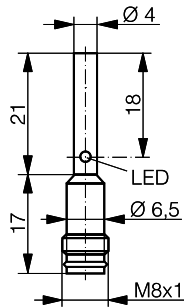
OPERATING DISTANCE MM

0.8

0.8

1.5

INDUCTIVE



DATA

IO-Link

IO-Link

IO-Link

Housing material

Stainless steel V2A

Stainless steel V2A

Stainless steel V2A

Connection

Connector S8

PVC cable / Connector S8

PVC cable

Degree of protection

IP 67

IP 67

IP 67

Mounting

Embeddable

Embeddable

Embeddable

Max. switching frequency

5000 Hz

5000 Hz

3000 Hz

Supply voltage range

10 ... 30 VDC

10 ... 30 VDC

10 ... 30 VDC

Ambient temperature range

-25 ... +70°C / -13 ... +158°F

-25 ... +70°C / -13 ... +158°F

-25 ... +70°C / -13 ... +158°F

Output current

≤ 200 mA

≤ 200 mA

≤ 200 mA

PNP NO

DW-AS-603-04

DW-AV-603-04-236

DW-AD-623-04

NPN NO

DW-AS-601-04

DW-AV-601-04-236

DW-AD-621-04

PNP NC

DW-AD-624-04

Other types available

PNP NC, NPN NC

PNP NC, NPN NC, PUR cable

NPN NC, pigtail

MINIATURE

CLASSICS	EXTRA DISTANCE	EXTRA DISTANCE	FULL INOX
Ø 4	Ø 4	Ø 4	Ø 4
1.5	2.5	2.5	3

Inductive

Photoelectric

Safety

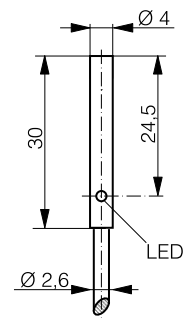
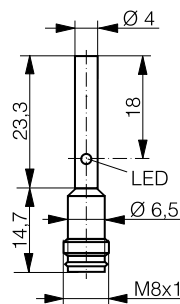
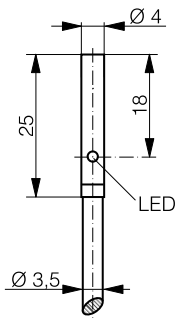
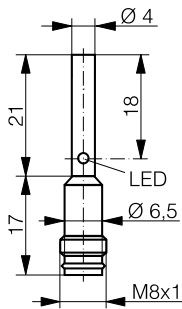
RFID

Connectivity

Accessories

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* IO-Link available from Q4/18

IO-Link	* IO-Link	* IO-Link	IO-Link
Stainless steel V2A	Nickel silver	Nickel silver	Stainless steel V2A
Connector S8	PVC cable	Connector S8	PVC cable
IP 67	IP 67	IP 67	IP 67
Embeddable	Embeddable	Embeddable	Non-embeddable
3000 Hz	800 Hz	800 Hz	1200 Hz
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +85°C / -13 ... +185°F
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA
DW-AS-623-04	DW-AD-503-04	DW-AS-503-04	DW-AD-713-04
DW-AS-621-04	DW-AD-501-04	DW-AS-501-04	DW-AD-711-04
		DW-AS-504-04	
PNP NC, NPN NC	PNP NC, NPN NC, pigtail	NPN NC	pigtail

MINIATURE

FAMILY

CLASSICS

CLASSICS

CLASSICS

HOUSING SIZE

M5

M5

M5

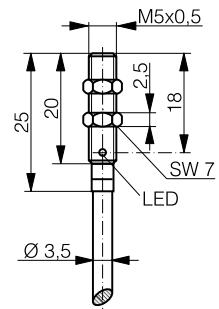
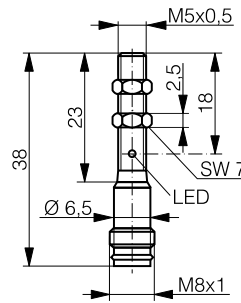
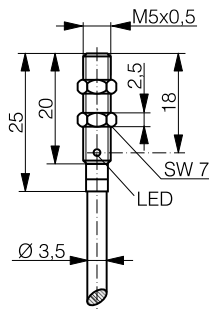
OPERATING DISTANCE MM

0.8

0.8

1.5

INDUCTIVE



DATA

IO-Link

IO-Link

IO-Link

Housing material

Stainless steel V2A

Stainless steel V2A

Stainless steel V2A

Connection

PVC cable

Connector S8

PVC cable

Degree of protection

IP 67

IP 67

IP 67

Mounting

Embeddable

Embeddable

Embeddable

Max. switching frequency

5000 Hz

5000 Hz

3000 Hz

Supply voltage range

10 ... 30 VDC

10 ... 30 VDC

10 ... 30 VDC

Ambient temperature range

-25 ... +70°C / -13 ... +158°F

-25 ... +70°C / -13 ... +158°F

-25 ... +70°C / -13 ... +158°F

Output current

≤ 200 mA

≤ 200 mA

≤ 200 mA

PNP NO

DW-AD-603-M5

DW-AS-603-M5

DW-AD-623-M5

NPN NO

DW-AD-601-M5

DW-AS-601-M5

DW-AD-621-M5

PNP NC

DW-AD-604-M5

DW-AS-604-M5

DW-AD-624-M5

Other types available

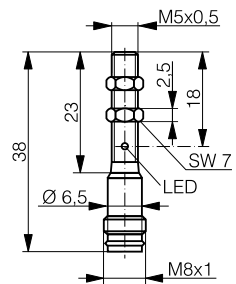
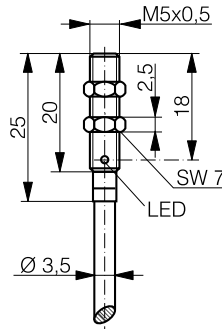
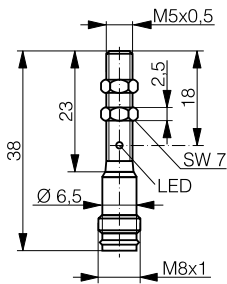
NPN NC, pigtail

NPN NC

NPN NC, pigtail

MINIATURE

CLASSICS	EXTRA DISTANCE	EXTRA DISTANCE
M5	M5	M5
1.5	2.5	2.5



* IO-Link available from Q4/18

IO-Link	* IO-Link	* IO-Link
Stainless steel V2A	Nickel silver	Nickel silver
Connector S8	PVC cable	Connector S8
IP 67	IP 67	IP 67
Embeddable	Quasi-embeddable	Quasi-embeddable
3000 Hz	800 Hz	800 Hz
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F
≤ 200 mA	≤ 200 mA	≤ 200 mA
DW-AS-623-M5	DW-AD-503-M5	DW-AS-503-M5
DW-AS-621-M5	DW-AD-501-M5	DW-AS-501-M5
DW-AS-624-M5	DW-AD-504-M5	DW-AS-504-M5
NPN NC	NPN NC	NPN NC

Inductive

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MINIATURE

FAMILY

FULL INOX

CLASSICS

HOUSING SIZE MM

M5

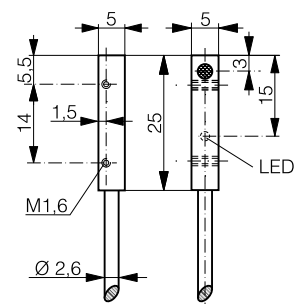
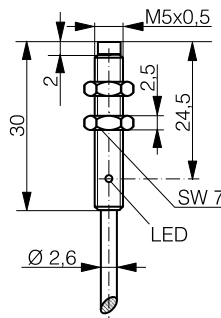
□ 5 x 5

OPERATING DISTANCE MM

3

0.8

INDUCTIVE



DATA

 IO-Link

 IO-Link

Housing material

Stainless steel V2A

Chrome-plated brass

Connection

PVC cable

PUR cable

Degree of protection

IP 67

IP 67

Mounting

Non-embeddable

Embeddable

Max. switching frequency

1200 Hz

5000 Hz

Supply voltage range

10 ... 30 VDC

10 ... 30 VDC

Ambient temperature range

-25 ... +85°C / -13 ... +185°F

-25 ... +70°C / -13 ... +158°F

Output current

≤ 200 mA

≤ 200 mA

PNP NO

DW-AD-713-M5

DW-AD-603-C5

NPN NO

DW-AD-711-M5

DW-AD-601-C5

PNP NC

DW-AD-604-C5

Other types available

Pigtail

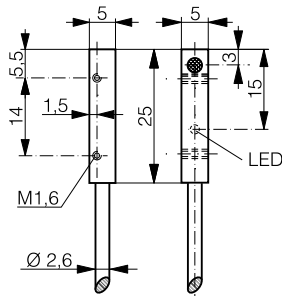
NPN NC, pigtail

MINIATURE

CLASSICS

□ 5 x 5

1.5



Inductive

Photoelectric

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IO-Link

Chrome-plated brass

PUR cable

IP 67

Embeddable

3000 Hz

10 ... 30 VDC

-25 ... +70°C / -13 ... +158°F

≤ 200 mA

DW-AD-623-C5

DW-AD-621-C5

DW-AD-624-C5

NPN NC, pigtail