

FIRST CHOICE IN ALL ENVIRONMENTS

# BASIC

## INDUCTIVE SENSORS

### KEY ADVANTAGES

#### Classics, Extra Distance and Full Inox

- ✓ High quality ASIC sensors
- ✓  IO-Link
- ✓ Exceptional price-performance ratio
- ✓ Excellent accuracy
- ✓ Outstanding temperature compensation
- ✓ Vibration and shock resistant
- ✓ Long operating distance

#### Full Inox

- ✓ Extremely robust one-piece stainless-steel housing
- ✓ Corrosion resistant
- ✓ IP 68 and IP 69K water resistant
- ✓ Pressure resistant up to 80 bar (1160 psi)

| RANGE OVERVIEW | Housing size | Classics        | Extra Distance | Full Inox |
|----------------|--------------|-----------------|----------------|-----------|
| BASIC          | Ø 6.5 mm     | p. 31-35        | p. 35          |           |
|                | M8           | p. 35-41, 43-44 | p. 42-45       | p. 41     |
|                | C8           | p. 45-46        | p. 46          |           |
|                | M12          | p. 47-51        | p. 50-54       | p. 47-48  |
|                | M18          | p. 54-57        | p. 57-59       | p. 55     |
|                | M30          | p. 60-61, 64    | p. 62-65       | p. 61     |
|                | C44          | p. 66-67        |                |           |

FAMILY

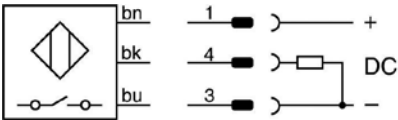
HOUSING SIZE MM

OPERATING DISTANCE MM

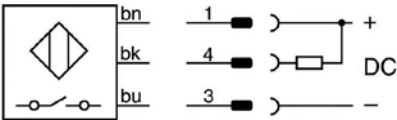
INDUCTIVE

WIRING DIAGRAMS

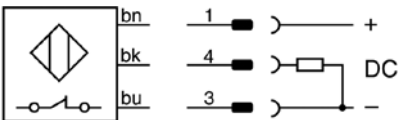
PNP NO



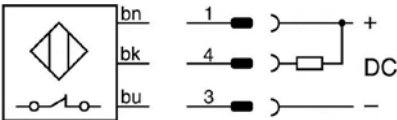
NPN NO



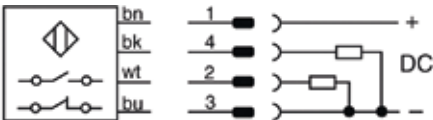
PNP NC



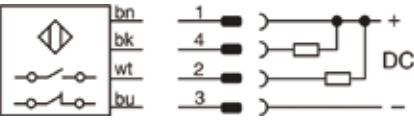
NPN NC



PNP Changeover



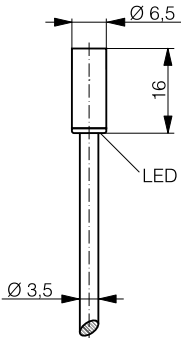
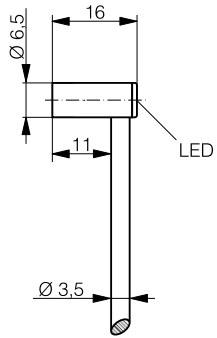
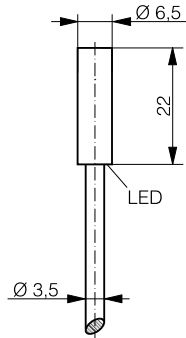
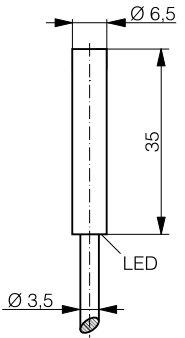
NPN Changeover



DATA

- Housing material
- Connection
- Degree of protection
- Mounting
- Max. switching frequency
- Supply voltage range
- Ambient temperature range
- Output current
- PNP NO
- NPN NO
- Other types available

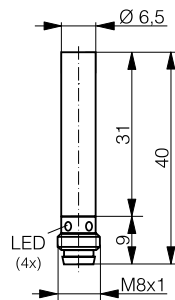
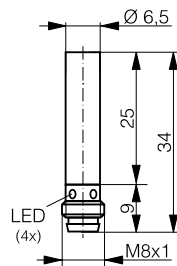
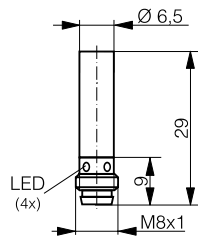
# BASIC

| CLASSICS                                                                                    | CLASSICS                                                                                    | CLASSICS                                                                                    | CLASSICS                                                                                      | Inductive     |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|
| Ø 6.5                                                                                       | Ø 6.5                                                                                       | Ø 6.5                                                                                       | Ø 6.5                                                                                         |               |
| 1.5                                                                                         | 1.5                                                                                         | 1.5                                                                                         | 1.5 (4)                                                                                       |               |
|            |            |           |            | Photoelectric |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               |               |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               | Safety        |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               |               |
|           |           |          |           | RFID          |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               |               |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               | Connectivity  |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               |               |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               | Accessories   |
|                                                                                             |                                                                                             |                                                                                             |                                                                                               |               |
|  IO-Link |  IO-Link |  IO-Link |  IO-Link | Glossary      |
| Stainless steel V2A                                                                         | Stainless steel V2A                                                                         | Stainless steel V2A                                                                         | Stainless steel V2A                                                                           |               |
| PVC cable                                                                                   | PVC cable                                                                                   | PVC cable                                                                                   | PVC cable                                                                                     |               |
| IP 67                                                                                       | IP 67                                                                                       | IP 67                                                                                       | IP 67                                                                                         |               |
| Embeddable                                                                                  | Embeddable                                                                                  | Embeddable                                                                                  | Embeddable                                                                                    |               |
| 5000 Hz                                                                                     | 5000 Hz                                                                                     | 5000 Hz                                                                                     | 5000 Hz                                                                                       |               |
| 10 ... 30 VDC                                                                               | 10 ... 30 VDC                                                                               | 10 ... 30 VDC                                                                               | 10 ... 30 VDC                                                                                 | Index         |
| -25 ... +70°C / -13 ... +158°F                                                              | -25 ... +70°C / -13 ... +158°F                                                              | -25 ... +70°C / -13 ... +158°F                                                              | -25 ... +70°C / -13 ... +158°F                                                                |               |
| ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                      |               |
| <b>DW-AD-603-065-120</b>                                                                    | <b>DW-AD-603-065-400</b>                                                                    | <b>DW-AD-603-065-121</b>                                                                    | <b>DW-AD-603-065</b>                                                                          |               |
| <b>DW-AD-601-065-120</b>                                                                    | <b>DW-AD-601-065-400</b>                                                                    | <b>DW-AD-601-065-121</b>                                                                    | <b>DW-AD-601-065</b>                                                                          |               |
| PNP NC, NPN NC                                                                              | PNP NC, NPN NC                                                                              | PNP NC, NPN NC                                                                              | PNP NC, NPN NC, length 30 mm, non-embeddable (Sn 4 mm)                                        |               |

# BASIC

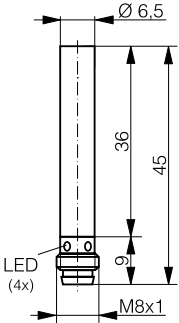
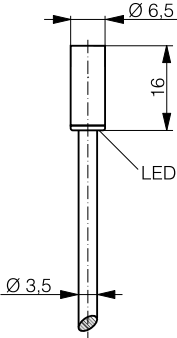
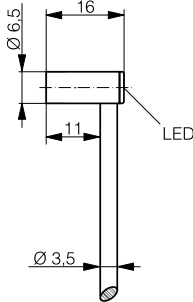
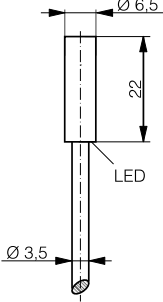
## INDUCTIVE

| FAMILY                | CLASSICS | CLASSICS | CLASSICS |
|-----------------------|----------|----------|----------|
| HOUSING SIZE MM       | Ø 6.5    | Ø 6.5    | Ø 6.5    |
| OPERATING DISTANCE MM | 1.5      | 1.5      | 1.5      |



| DATA                      | IO-Link                        | IO-Link                        | IO-Link                        |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| Housing material          | Stainless steel V2A            | Stainless steel V2A            | Stainless steel V2A            |
| Connection                | Connector S8                   | Connector S8                   | Connector S8                   |
| Degree of protection      | IP 67                          | IP 67                          | IP 67                          |
| Mounting                  | Embeddable                     | Embeddable                     | Embeddable                     |
| Max. switching frequency  | 5000 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            | ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       |
| PNP NO                    | <b>DW-AS-603-065-129</b>       | <b>DW-AS-603-065-123</b>       | <b>DW-AS-603-065-124</b>       |
| NPN NO                    | <b>DW-AS-601-065-129</b>       | <b>DW-AS-601-065-123</b>       | <b>DW-AS-601-065-124</b>       |
| Other types available     | PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 |

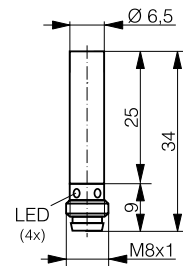
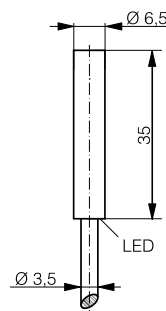
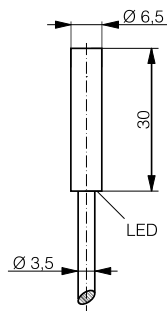
# BASIC

| CLASSICS                                                                            | CLASSICS                                                                            | CLASSICS                                                                             | CLASSICS                                                                              | Inductive     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|
| Ø 6.5                                                                               | Ø 6.5                                                                               | Ø 6.5                                                                                | Ø 6.5                                                                                 |               |
| 1.5 (4)                                                                             | 2                                                                                   | 2                                                                                    | 2                                                                                     |               |
|    |    |    |    | Photoelectric |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Safety        |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|  |  |  |  | RFID          |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Connectivity  |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Accessories   |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       |               |
| IO-Link                                                                             | IO-Link                                                                             | IO-Link                                                                              | IO-Link                                                                               | Glossary      |
| Stainless steel V2A                                                                 | Stainless steel V2A                                                                 | Stainless steel V2A                                                                  | Stainless steel V2A                                                                   |               |
| Connector S8                                                                        | PVC cable                                                                           | PVC cable                                                                            | PVC cable                                                                             |               |
| IP 67                                                                               | IP 67                                                                               | IP 67                                                                                | IP 67                                                                                 | Index         |
| Embeddable                                                                          | Embeddable                                                                          | Embeddable                                                                           | Embeddable                                                                            |               |
| 5000 Hz                                                                             | 5000 Hz                                                                             | 5000 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                                                        |               |
| ≤ 200 mA                                                                            | ≤ 200 mA                                                                            | ≤ 200 mA                                                                             | ≤ 200 mA                                                                              |               |
| DW-AS-603-065-001                                                                   | DW-AD-623-065-120                                                                   | DW-AD-623-065-400                                                                    | DW-AD-623-065-121                                                                     |               |
| DW-AS-601-065-001                                                                   | DW-AD-621-065-120                                                                   | DW-AD-621-065-400                                                                    | DW-AD-621-065-121                                                                     |               |
| PNP NC, NPN NC, S12, non-embeddable (Sn 4 mm)                                       | PNP NC, NPN NC                                                                      | PNP NC, NPN NC                                                                       | PNP NC, NPN NC                                                                        |               |

# BASIC

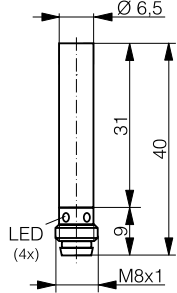
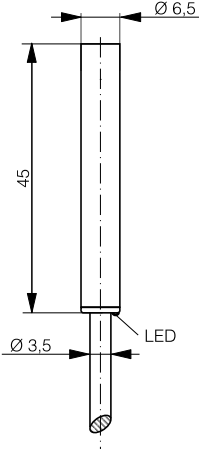
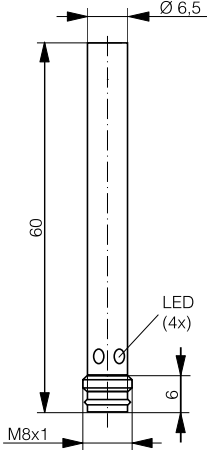
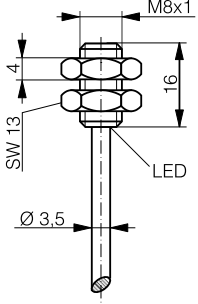
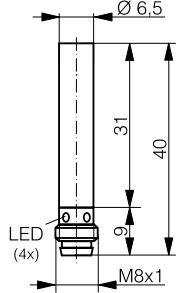
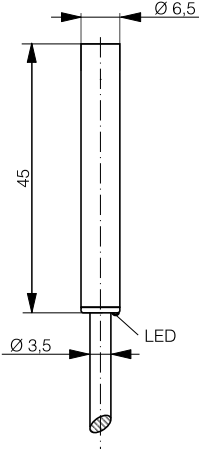
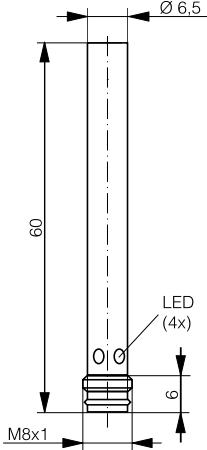
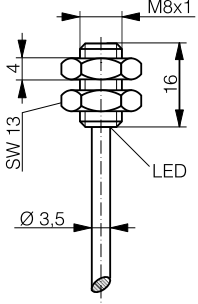
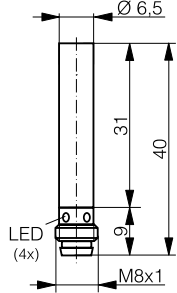
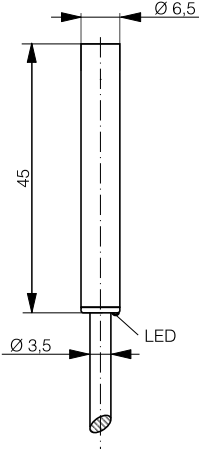
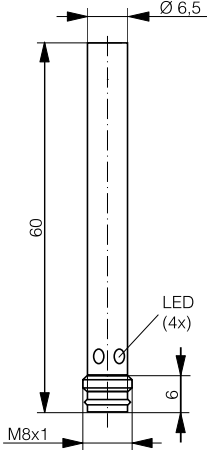
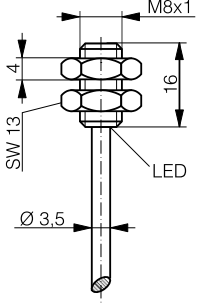
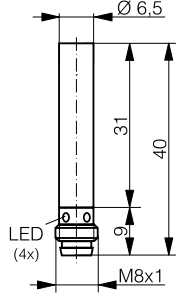
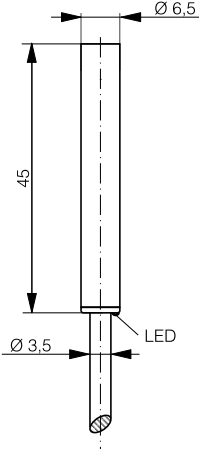
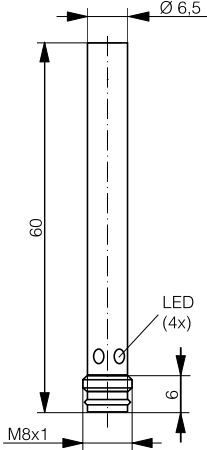
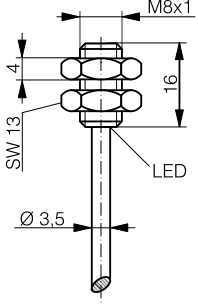
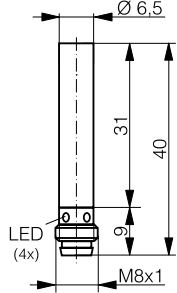
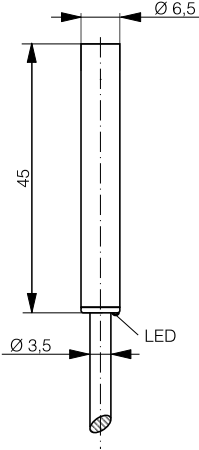
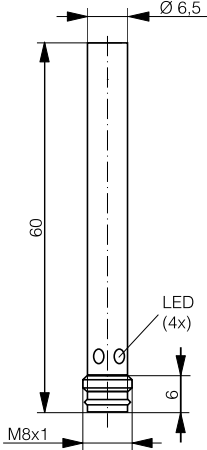
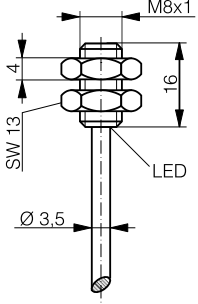
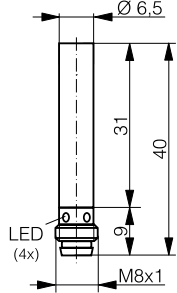
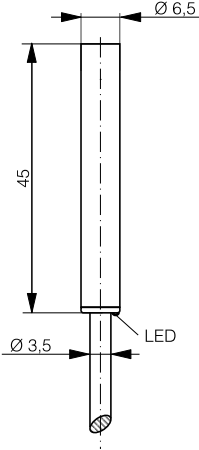
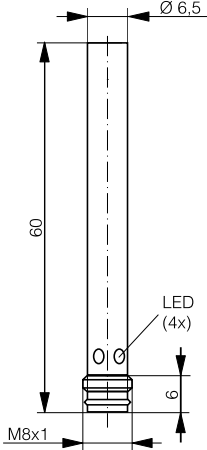
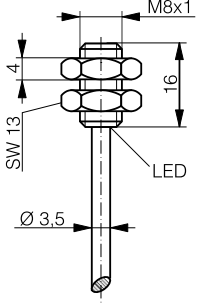
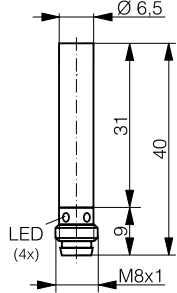
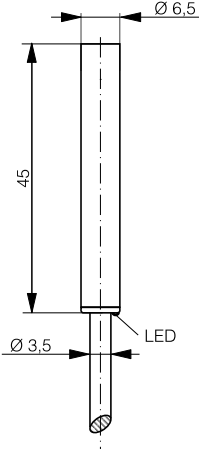
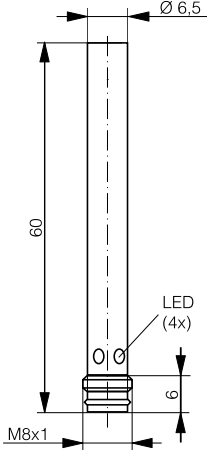
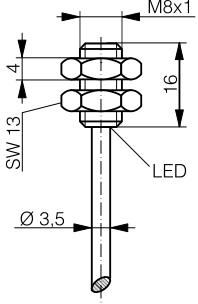
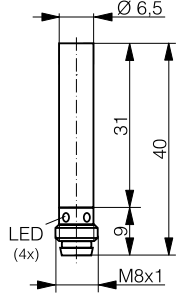
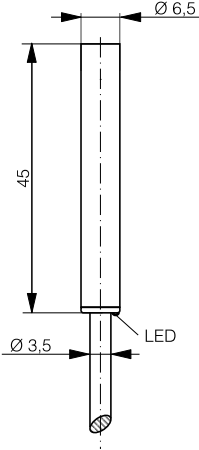
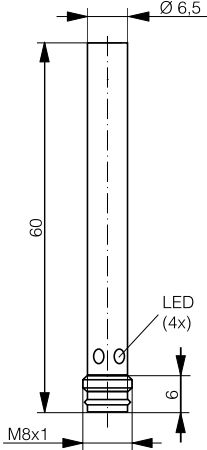
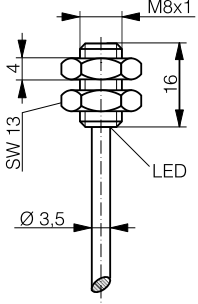
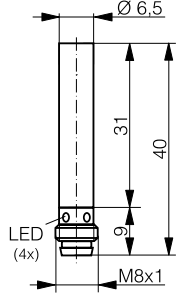
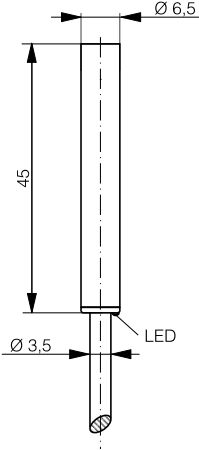
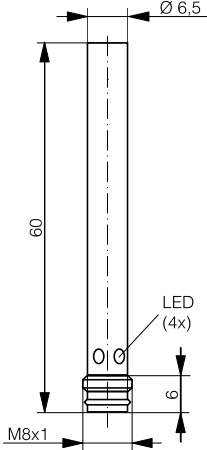
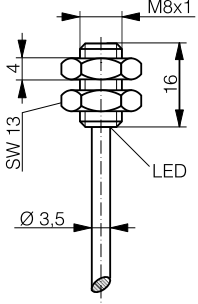
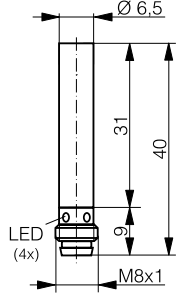
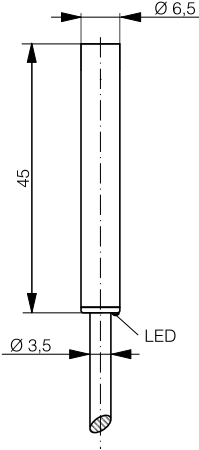
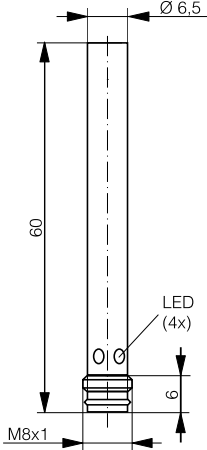
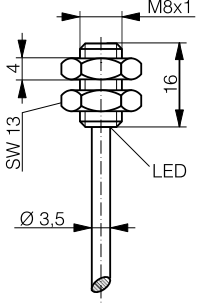
## INDUCTIVE

| FAMILY                | CLASSICS | CLASSICS | CLASSICS |
|-----------------------|----------|----------|----------|
| HOUSING SIZE MM       | Ø 6.5    | Ø 6.5    | Ø 6.5    |
| OPERATING DISTANCE MM | 2        | 2        | 2        |



| DATA                      |  IO-Link |  IO-Link |  IO-Link |
|---------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Housing material          | Stainless steel V2A                                                                         | Stainless steel V2A                                                                         | Stainless steel V2A                                                                           |
| Connection                | PVC cable                                                                                   | PVC cable                                                                                   | Connector S8                                                                                  |
| Degree of protection      | IP 67                                                                                       | IP 67                                                                                       | IP 67                                                                                         |
| Mounting                  | Embeddable                                                                                  | Embeddable                                                                                  | Embeddable                                                                                    |
| Max. switching frequency  | 5000 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            | ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                      |
| PNP NO                    | <b>DW-AD-623-065-122</b>                                                                    | <b>DW-AD-623-065</b>                                                                        | <b>DW-AS-623-065-123</b>                                                                      |
| NPN NO                    | <b>DW-AD-621-065-122</b>                                                                    | <b>DW-AD-621-065</b>                                                                        | <b>DW-AS-621-065-123</b>                                                                      |
| Other types available     | PNP NC, NPN NC                                                                              | PNP NC, NPN NC                                                                              | PNP NC, NPN NC, length 29 mm                                                                  |

# BASIC

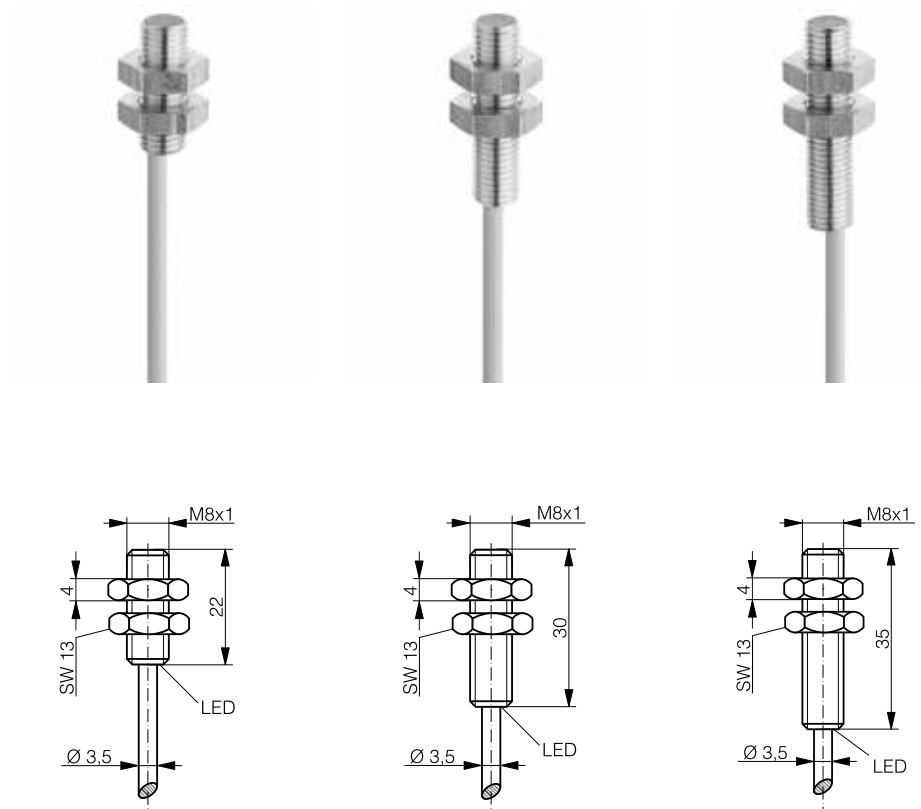
| CLASSICS                                                                                                                                                                                                                                                                                                                                                                                           | EXTRA DISTANCE | EXTRA DISTANCE | CLASSICS | Inductive     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------|---------------|
| Ø 6.5                                                                                                                                                                                                                                                                                                                                                                                              | Ø 6.5          | Ø 6.5          | M8       |               |
| 2                                                                                                                                                                                                                                                                                                                                                                                                  | 3              | 3              | 1.5      |               |
| <div><div></div><div></div><div></div><div></div></div>     |                |                |          | Photoelectric |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          | Safety        |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          | RFID          |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          | Connectivity  |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          | Accessories   |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          | Glossary      |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          |               |
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| <div><div></div><div></div><div></div><div></div></div> |                |                |          | Index         |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          |               |
| <div><div></div><div></div><div></div><div></div></div> |                |                |          |               |

\* IO-Link available from Q4/18

# BASIC

## INDUCTIVE

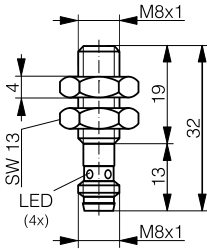
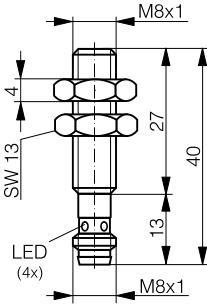
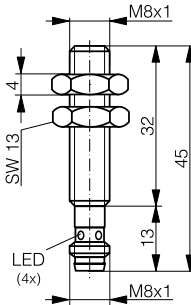
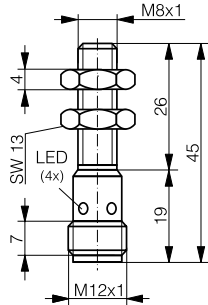
| FAMILY                | CLASSICS | CLASSICS | CLASSICS |
|-----------------------|----------|----------|----------|
| HOUSING SIZE          | M8       | M8       | M8       |
| OPERATING DISTANCE MM | 1.5      | 1.5      | 1.5      |



| DATA                      | IO-Link                        | IO-Link                        | IO-Link                        |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| Housing material          | Stainless steel V2A            | Stainless steel V2A            | Stainless steel V2A            |
| Connection                | PVC cable                      | PVC cable                      | PVC cable                      |
| Degree of protection      | IP 67                          | IP 67                          | IP 67                          |
| Mounting                  | Embeddable                     | Embeddable                     | Embeddable                     |
| Max. switching frequency  | 5000 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            | ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       |
| PNP NO                    | <b>DW-AD-603-M8-121</b>        | <b>DW-AD-603-M8-122</b>        | <b>DW-AD-603-M8</b>            |
| NPN NO                    | <b>DW-AD-601-M8-121</b>        | <b>DW-AD-601-M8-122</b>        | <b>DW-AD-601-M8</b>            |
| Other types available     | PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 |



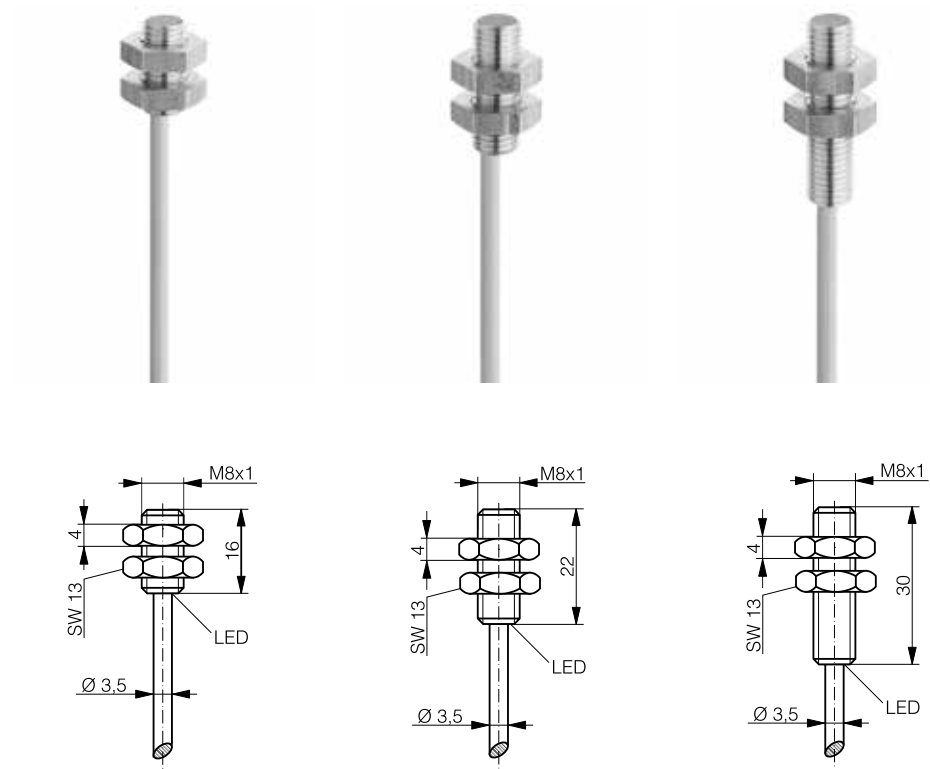
# BASIC

| CLASSICS                                                                            | CLASSICS                                                                            | CLASSICS                                                                             | CLASSICS                                                                              | Inductive     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|
| M8                                                                                  | M8                                                                                  | M8                                                                                   | M8                                                                                    |               |
| 1.5                                                                                 | 1.5                                                                                 | 1.5                                                                                  | 1.5                                                                                   |               |
|    |    |    |    | Photoelectric |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Safety        |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | RFID          |
|   |   |   |   | Connectivity  |
|  |  |  |  | Accessories   |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Glossary      |
|                                                                                     |                                                                                     |                                                                                      |                                                                                       | Index         |
| 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                                                                            |               |
| 5000 Hz                                                                             | 5000 Hz                                                                             | 5000 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                                                        |               |
| ≤ 200 mA                                                                            | ≤ 200 mA                                                                            | ≤ 200 mA                                                                             | ≤ 200 mA                                                                              |               |
| DW-AS-603-M8-123                                                                    | DW-AS-603-M8-124                                                                    | DW-AS-603-M8-001                                                                     | DW-AS-603-M8                                                                          |               |
| DW-AS-601-M8-123                                                                    | DW-AS-601-M8-124                                                                    | DW-AS-601-M8-001                                                                     | DW-AS-601-M8                                                                          |               |
| PNP NC, NPN NC                                                                      | PNP NC, NPN NC                                                                      | PNP NC, NPN NC                                                                       | PNP NC, NPN NC, length 39 mm                                                          |               |

# BASIC

## INDUCTIVE

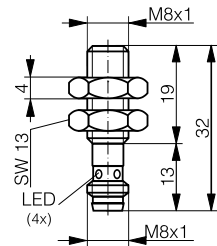
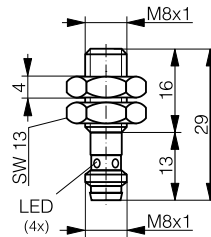
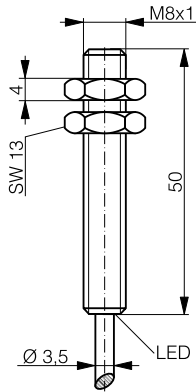
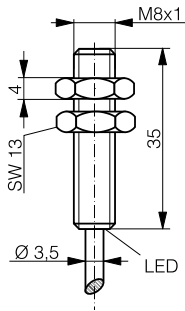
| FAMILY                | CLASSICS | CLASSICS | CLASSICS |
|-----------------------|----------|----------|----------|
| HOUSING SIZE          | M8       | M8       | M8       |
| OPERATING DISTANCE MM | 2        | 2        | 2        |



| DATA                      | IO-Link                        | IO-Link                        | IO-Link                        |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| Housing material          | Stainless steel V2A            | Stainless steel V2A            | Stainless steel V2A            |
| Connection                | PVC cable                      | PVC cable                      | PVC cable                      |
| Degree of protection      | IP 67                          | IP 67                          | IP 67                          |
| Mounting                  | Embeddable                     | Embeddable                     | Embeddable                     |
| Max. switching frequency  | 5000 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            | ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       |
| PNP NO                    | <b>DW-AD-623-M8-120</b>        | <b>DW-AD-623-M8-121</b>        | <b>DW-AD-623-M8-122</b>        |
| NPN NO                    | <b>DW-AD-621-M8-120</b>        | <b>DW-AD-621-M8-121</b>        | <b>DW-AD-621-M8-122</b>        |
| Other types available     | PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 |

# BASIC

| CLASSICS | CLASSICS | CLASSICS | CLASSICS |
|----------|----------|----------|----------|
| M8       | M8       | M8       | M8       |
| 2        | 2        | 2        | 2        |



| IO-Link                        | IO-Link                        | IO-Link                        | IO-Link                        |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Stainless steel V2A            | Stainless steel V2A            | Stainless steel V2A            | Stainless steel V2A            |
| PVC cable                      | PVC cable                      | Connector S8                   | Connector S8                   |
| IP 67                          | IP 67                          | IP 67                          | IP 67                          |
| Embeddable                     | Embeddable                     | Embeddable                     | Embeddable                     |
| 5000 Hz                        | 5000 Hz                        | 5000 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 |
| ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       |
| DW-AD-623-M8                   | DW-AD-623-M8-177               | DW-AS-623-M8-129               | DW-AS-623-M8-123               |
| DW-AD-621-M8                   | DW-AD-621-M8-177               | DW-AS-621-M8-129               | DW-AS-621-M8-123               |
| PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 |

Inductive

Photoelectric

Safety

RFID

Connectivity

Accessories

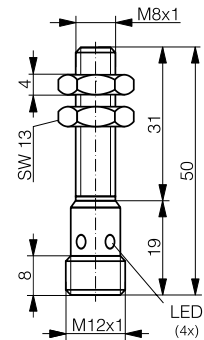
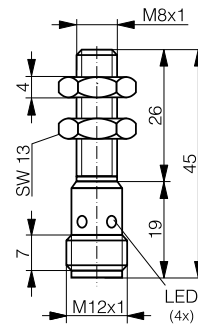
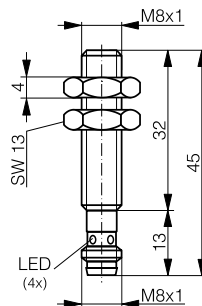
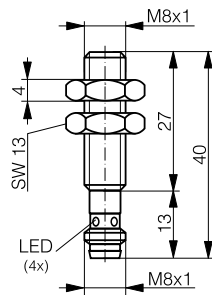
Glossary

Index

# BASIC

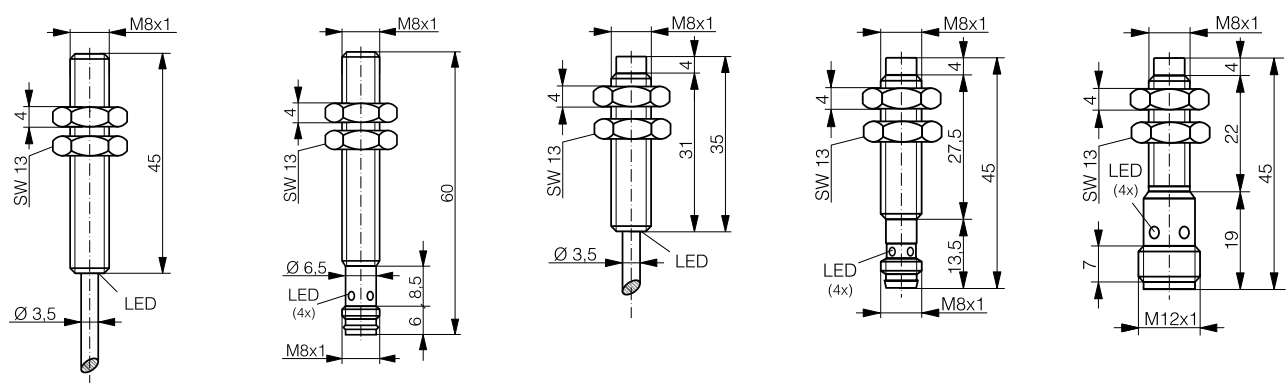
## INDUCTIVE

| FAMILY                | CLASSICS | CLASSICS | CLASSICS | CLASSICS |
|-----------------------|----------|----------|----------|----------|
| HOUSING SIZE          | M8       | M8       | M8       | M8       |
| OPERATING DISTANCE MM | 2        | 2        | 2        | 2        |



| DATA                      | IO-Link                  | IO-Link                  | IO-Link                  | IO-Link                  |
|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Housing material          | Stainless steel V2A      | Stainless steel V2A      | Stainless steel V2A      | Stainless steel V2A      |
| Connection                | Connector S8             | Connector S8             | Connector S12            | Connector S12            |
| Degree of protection      | IP 67                    | IP 67                    | IP 67                    | IP 67                    |
| Mounting                  | Embeddable               | Embeddable               | Embeddable               | Embeddable               |
| Max. switching frequency  | 5000 Hz                  | 5000 Hz                  | 5000 Hz                  | 5000 Hz                  |
| Supply voltage range      | 10 ... 30 VDC            | 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 | -25...+70°C/-13...+158°F |
| Output current            | ≤ 200 mA                 | ≤ 200 mA                 | ≤ 200 mA                 | ≤ 200 mA                 |
| PNP NO                    | <b>DW-AS-623-M8-124</b>  | <b>DW-AS-623-M8-001</b>  | <b>DW-AS-623-M8</b>      | <b>DW-AS-623-M8-193</b>  |
| NPN NO                    | <b>DW-AS-621-M8-124</b>  | <b>DW-AS-621-M8-001</b>  | <b>DW-AS-621-M8</b>      |                          |
| Other types available     | PNP NC, NPN NC           | PNP NC, NPN NC           | PNP NC, NPN NC           |                          |

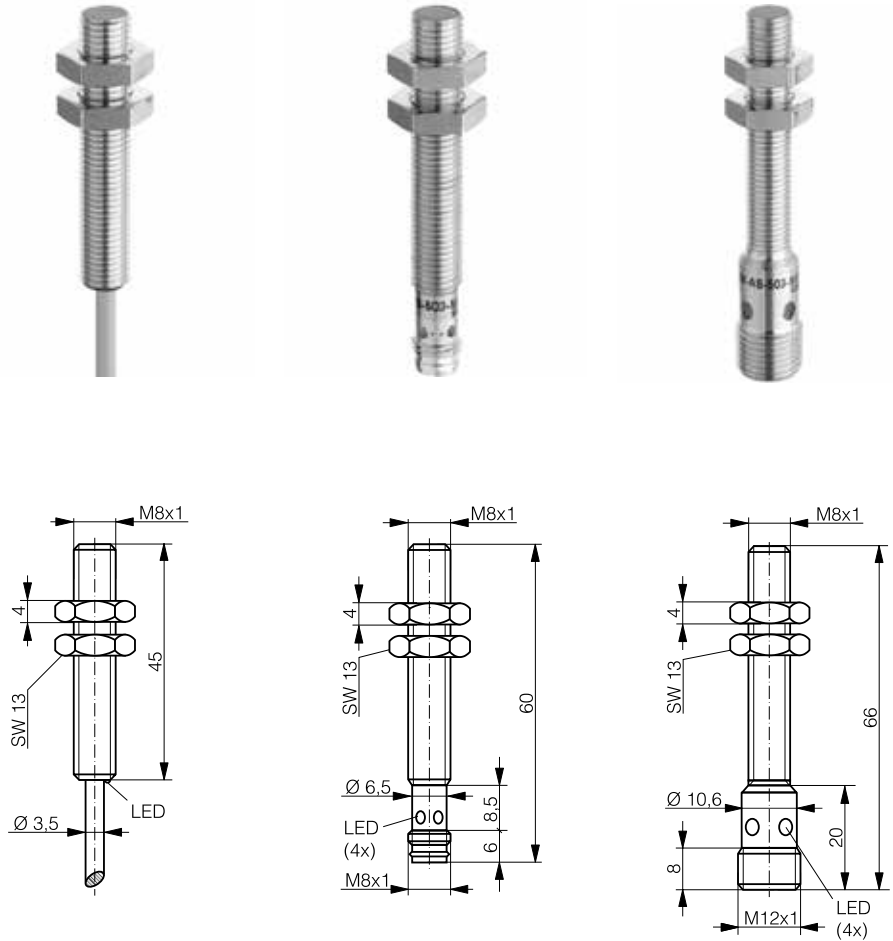
# BASIC

| FULL INOX                                                                           | FULL INOX                    | CLASSICS                           | CLASSICS                           | CLASSICS                     | Inductive     |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------|------------------------------|---------------|
| M8                                                                                  | M8                           | M8                                 | M8                                 | M8                           |               |
| 2                                                                                   | 2                            | 2.5                                | 2.5                                | 2.5                          |               |
|   |                              |                                    |                                    |                              | Photoelectric |
|  |                              |                                    |                                    |                              | Safety        |
|                                                                                     |                              |                                    |                                    |                              | RFID          |
|                                                                                     |                              |                                    |                                    |                              | Connectivity  |
|                                                                                     |                              |                                    |                                    |                              | Accessories   |
| IO-Link                                                                             | IO-Link                      | IO-Link                            | IO-Link                            | IO-Link                      | Glossary      |
| Stainless steel V2A                                                                 | Stainless steel V2A          | Stainless steel V2A                | Stainless steel V2A                | Stainless steel V2A          |               |
| PUR cable                                                                           | Connector S8                 | PVC cable                          | Connector S8                       | Connector S12                |               |
| IP 68                                                                               | IP 68 / IP 69K               | IP 67                              | IP 67                              | IP 67                        | Index         |
| Embeddable                                                                          | Embeddable                   | Non-embeddable                     | Non-embeddable                     | Non-embeddable               |               |
| 100 Hz                                                                              | 100 Hz                       | 4500 Hz                            | 4500 Hz                            | 4500 Hz                      |               |
| 10 ... 30 VDC                                                                       | 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       | -25 ... +70°C/-13 ... +158°F |               |
| ≤ 200 mA                                                                            | ≤ 200 mA                     | ≤ 200 mA                           | ≤ 200 mA                           | ≤ 200 mA                     |               |
| DW-AD-703-M8-BAS                                                                    | DW-AS-703-M8-001-BAS         | DW-AD-613-M8                       | DW-AS-613-M8-001                   | DW-AS-613-M8                 |               |
| DW-AD-701-M8-BAS                                                                    | DW-AS-701-M8-001-BAS         | DW-AD-611-M8                       | DW-AS-611-M8-001                   | DW-AS-611-M8                 |               |
|                                                                                     |                              | PNP NC, NPN NC, lengths 22 & 30 mm | PNP NC, NPN NC, lengths 32 & 40 mm | PNP NC, NPN NC               |               |

# BASIC

## INDUCTIVE

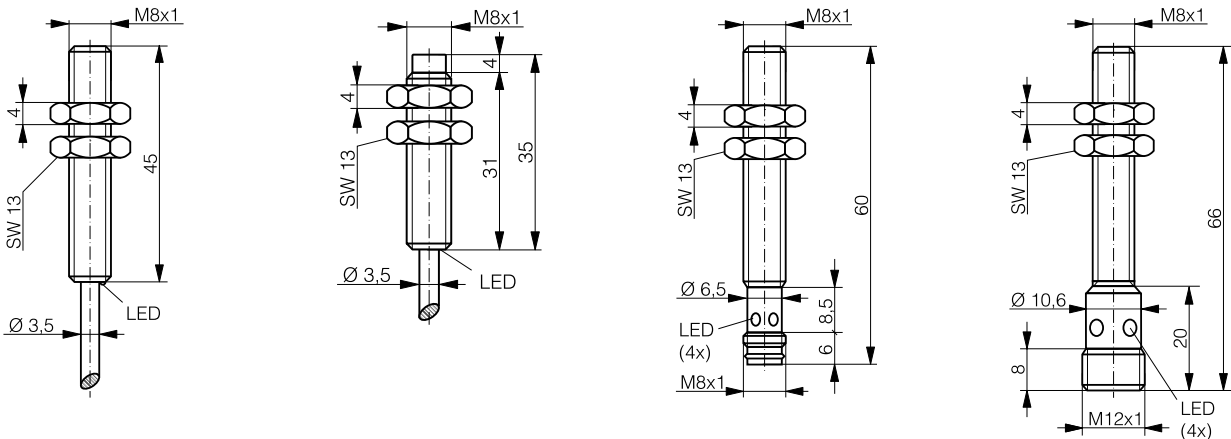
| FAMILY                | EXTRA DISTANCE | EXTRA DISTANCE | EXTRA DISTANCE |
|-----------------------|----------------|----------------|----------------|
| HOUSING SIZE          | M8             | M8             | M8             |
| OPERATING DISTANCE MM | 3              | 3              | 3              |



\* IO-Link available from Q4/18

| DATA                      | *  IO-Link | *  IO-Link | *  IO-Link |
|---------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Housing material          | Chrome-plated nickel silver                                                                   | Chrome-plated nickel silver                                                                   | Chrome-plated nickel silver                                                                     |
| Connection                | PVC cable                                                                                     | Connector S8                                                                                  | Connector S12                                                                                   |
| Degree of protection      | IP 67                                                                                         | IP 67                                                                                         | IP 67                                                                                           |
| Mounting                  | Embeddable                                                                                    | Embeddable                                                                                    | Embeddable                                                                                      |
| Max. switching frequency  | 1000 Hz                                                                                       | 1000 Hz                                                                                       | 1000 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                    | <b>DW-AD-503-M8</b>                                                                           | <b>DW-AS-503-M8-001</b>                                                                       | <b>DW-AS-503-M8</b>                                                                             |
| NPN NO                    | <b>DW-AD-501-M8</b>                                                                           | <b>DW-AS-501-M8-001</b>                                                                       | <b>DW-AS-501-M8</b>                                                                             |
| Other types available     | PNP NC, NPN NC, length 35 mm                                                                  | PNP NC, NPN NC                                                                                | PNP NC, NPN NC                                                                                  |

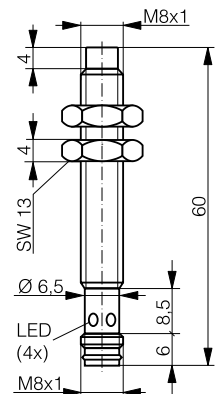
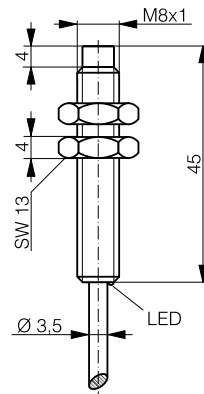
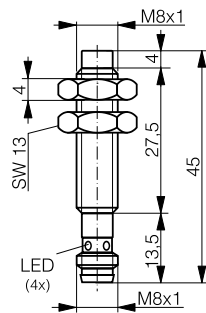
# BASIC

| EXTRA DISTANCE                                                                                | CLASSICS                                                                                    | EXTRA DISTANCE                                                                                | EXTRA DISTANCE                                                                                  | Inductive     |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------|
| M8                                                                                            | M8                                                                                          | M8                                                                                            | M8                                                                                              |               |
| 4                                                                                             | 4                                                                                           | 4                                                                                             | 4                                                                                               |               |
|             |                                                                                             |                                                                                               |                                                                                                 | Photoelectric |
|            |                                                                                             |                                                                                               |                                                                                                 | Safety        |
|                                                                                               |                                                                                             |                                                                                               |                                                                                                 | RFID          |
|                                                                                               |                                                                                             |                                                                                               |                                                                                                 | Connectivity  |
|                                                                                               |                                                                                             |                                                                                               |                                                                                                 | Accessories   |
| *  IO-Link |  IO-Link | *  IO-Link | *  IO-Link | Glossary      |
| Chrome-plated nickel silver                                                                   | Stainless steel V2A                                                                         | Chrome-plated nickel silver                                                                   | Chrome-plated nickel silver                                                                     |               |
| PVC cable                                                                                     | PVC cable                                                                                   | Connector S8                                                                                  | Connector S12                                                                                   |               |
| IP 67                                                                                         | IP 67                                                                                       | IP 67                                                                                         | IP 67                                                                                           |               |
| Embeddable                                                                                    | Non-embeddable                                                                              | Embeddable                                                                                    | Embeddable                                                                                      |               |
| 500 Hz                                                                                        | 3500 Hz                                                                                     | 500 Hz                                                                                        | 500 Hz                                                                                          | Index         |
| 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                                                                  |               |
| ≤ 200 mA                                                                                      | ≤ 200 mA                                                                                    | ≤ 200 mA                                                                                      | ≤ 200 mA                                                                                        |               |
| <b>DW-AD-523-M8</b>                                                                           | <b>DW-AD-633-M8</b>                                                                         | <b>DW-AS-523-M8-001</b>                                                                       | <b>DW-AS-523-M8</b>                                                                             |               |
| <b>DW-AD-521-M8</b>                                                                           | <b>DW-AD-631-M8</b>                                                                         | <b>DW-AS-521-M8-001</b>                                                                       | <b>DW-AS-521-M8</b>                                                                             | Index         |
| PNP NC, NPN NC, length 35 mm                                                                  | PNP NC, NPN NC                                                                              | PNP NC, NPN NC                                                                                | PNP NC, NPN NC                                                                                  |               |

# BASIC

## INDUCTIVE

| FAMILY                | CLASSICS | EXTRA DISTANCE | EXTRA DISTANCE |
|-----------------------|----------|----------------|----------------|
| HOUSING SIZE MM       | M8       | M8             | M8             |
| OPERATING DISTANCE MM | 4        | 6              | 6              |



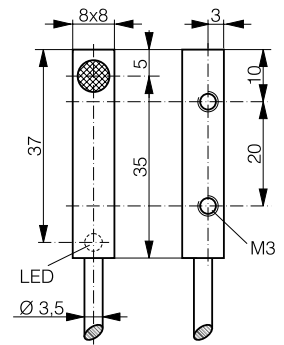
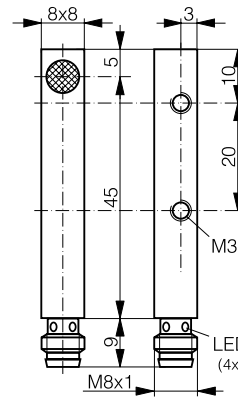
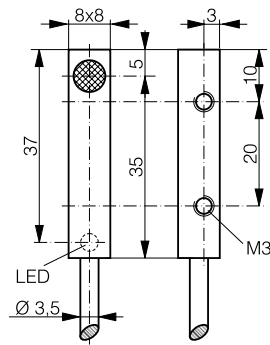
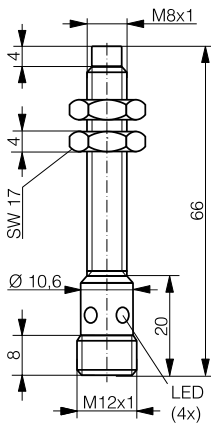
\* IO-Link available from Q4/18

| DATA                      | IO-Link                        | *  IO-Link                     | *  IO-Link                     |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| Housing material          | Stainless steel V2A            | Chrome-plated brass            | Chrome-plated brass            |
| Connection                | Connector S8                   | PVC cable                      | Connector S8                   |
| Degree of protection      | IP 67                          | IP 67                          | IP 67                          |
| Mounting                  | Non-embeddable                 | Non-embeddable                 | Non-embeddable                 |
| Max. switching frequency  | 3500 Hz                        | 500 Hz                         | 500 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                    | <b>DW-AS-633-M8-001</b>        | <b>DW-AD-513-M8</b>            | <b>DW-AS-513-M8-001</b>        |
| NPN NO                    | <b>DW-AS-631-M8-001</b>        | <b>DW-AD-511-M8</b>            | <b>DW-AS-511-M8-001</b>        |
| Other types available     | PNP NC, NPN NC                 | PNP NC, NPN NC, length 35 mm   | PNP NC, NPN NC                 |



# BASIC

| EXTRA DISTANCE | CLASSICS | CLASSICS | CLASSICS |
|----------------|----------|----------|----------|
| M8             | □ 8 x 8  | □ 8 x 8  | □ 8 x 8  |
| 6              | 1.5      | 1.5      | 2        |



| *  IO-Link                     | IO-Link                        | IO-Link                        | IO-Link                        |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Chrome-plated brass            | Zamak                          | Zamak                          | Zamak                          |
| Connector S12                  | PVC cable                      | Connector S8                   | PVC cable                      |
| IP 67                          | IP 67                          | IP 67                          | IP 67                          |
| Non-embeddable                 | Embeddable                     | Embeddable                     | Embeddable                     |
| 500 Hz                         | 3500 Hz                        | 3500 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 |
| ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       | ≤ 200 mA                       |
| DW-AS-513-M8                   | DW-AD-603-C8                   | DW-AS-603-C8-001               | DW-AD-623-C8                   |
| DW-AS-511-M8                   | DW-AD-601-C8                   | DW-AS-601-C8-001               | DW-AD-621-C8                   |
| PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 | PNP NC, NPN NC                 |

Inductive

Photoelectric

Safety

RFID

Connectivity

Accessories

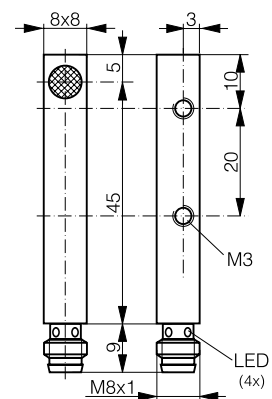
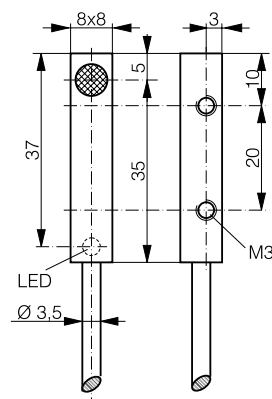
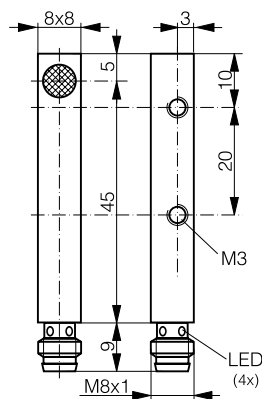
Glossary

Index

# BASIC

## INDUCTIVE

| FAMILY                | CLASSICS                                                                                | EXTRA DISTANCE                                                                          | EXTRA DISTANCE                                                                            |
|-----------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| HOUSING SIZE MM       |  8 x 8 |  8 x 8 |  8 x 8 |
| OPERATING DISTANCE MM | 2                                                                                       | 3                                                                                       | 3                                                                                         |



\* IO-Link available from Q4/18

| DATA                      |  IO-Link | *  IO-Link | *  IO-Link |
|---------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Housing material          | Zamak                                                                                       | Zamak                                                                                         | Zamak                                                                                           |
| Connection                | Connector S8                                                                                | PVC cable                                                                                     | Connector S8                                                                                    |
| Degree of protection      | IP 67                                                                                       | IP 67                                                                                         | IP 67                                                                                           |
| Mounting                  | Embeddable                                                                                  | Quasi-embeddable                                                                              | Quasi-embeddable                                                                                |
| Max. switching frequency  | 5000 Hz                                                                                     | 1000 Hz                                                                                       | 1000 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                    | <b>DW-AS-623-C8-001</b>                                                                     | <b>DW-AD-503-C8</b>                                                                           | <b>DW-AS-503-C8</b>                                                                             |
| NPN NO                    | <b>DW-AS-621-C8-001</b>                                                                     | <b>DW-AD-501-C8</b>                                                                           | <b>DW-AS-501-C8</b>                                                                             |
| Other types available     | PNP NC, NPN NC                                                                              | PNP NC, NPN NC                                                                                | PNP NC, NPN NC                                                                                  |