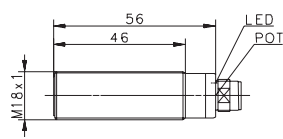
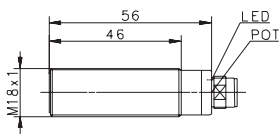
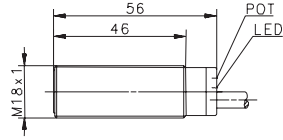
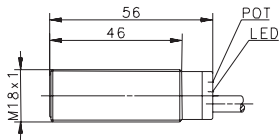


|                                  |                                  |                                  |                                  |  |  |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|
| M18                              |                                  | M18                              |                                  |  |  |
| Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D |  |  |
| 40 mm                            | 40 mm                            | 100 mm                           | 100 mm                           |  |  |
| Cable 2 m                        | Connector M12                    | Cable 2 m                        | Connector M12                    |  |  |



|                     |                     |                     |                     |  |  |  |  |
|---------------------|---------------------|---------------------|---------------------|--|--|--|--|
| 6558819001          | 6558818002          | 6557819004          | 6557818002          |  |  |  |  |
| OT18FF-DPTP-0040-CL | OT18FF-DPTP-0040-SL | OT18RT-DPTP-0100-CL | OT18RT-DPTP-0100-SL |  |  |  |  |
|                     |                     |                     |                     |  |  |  |  |
|                     |                     |                     |                     |  |  |  |  |
|                     |                     |                     |                     |  |  |  |  |
|                     |                     |                     |                     |  |  |  |  |
|                     |                     |                     |                     |  |  |  |  |

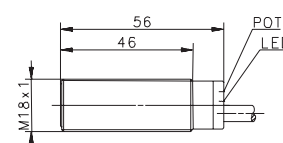
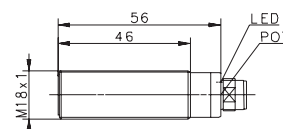
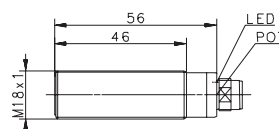
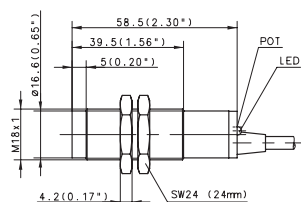
|           |           |           |           |  |  |
|-----------|-----------|-----------|-----------|--|--|
| 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC |  |  |
| 50 mA     | 50 mA     | 200 mA    | 200 mA    |  |  |
| 500 Hz    | 500 Hz    | 500 Hz    | 500 Hz    |  |  |
| Cyclic    | Cyclic    | Cyclic    | Cyclic    |  |  |
| LED/–     | LED/–     | LED/–     | LED/–     |  |  |
| –         | –         | –         | –         |  |  |
|           |           |           |           |  |  |
|           |           |           |           |  |  |
| IR 880 nm | IR 880 nm | IR 880 nm | IR 880 nm |  |  |

|              |             |              |             |  |  |
|--------------|-------------|--------------|-------------|--|--|
| –20°C/+70°C  | –20°C/+70°C | –20°C/+70°C  | –20°C/+70°C |  |  |
| IP67         | IP67        | IP67         | IP67        |  |  |
| PBT          | PBT         | PBT          | PBT, black  |  |  |
| 4 x 0.34 mm² | M12 x 1     | 4 x 0.34 mm² | M12 x 1     |  |  |



## Optoelectronic Sensors (Type M18)

| Type               | M18                              | M18                              | M18                              |
|--------------------|----------------------------------|----------------------------------|----------------------------------|
| Operating mode     | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D |
| Sensing range      | 200 mm                           | 300 mm                           | 300 mm                           |
| Type of connection | Cable 2 m                        | Connector M12                    | Connector M12                    |
| Special feature    |                                  |                                  | Cable 2 m                        |



|              |                                                           |                                    |                                    |                                    |                                    |
|--------------|-----------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| PNP          | Light activated<br>Dark activated<br>Programmable<br>Type | 6557819001<br>OT18RT-DATP-0200-CEL | 6557821002<br>ON18RT-DPTP-0300-SLE | 6557816002<br>OM18RT-DPTP-0300-SLE | 6557819005<br>OT18RT-DPTP-0300-CLE |
| NPN          | Light activated<br>Dark activated<br>Programmable<br>Type | 6557219002<br>OT18RT-DATN-0200-CEL |                                    |                                    |                                    |
| Transmitter  | Type                                                      |                                    |                                    |                                    |                                    |
| Relay output |                                                           |                                    |                                    |                                    |                                    |
| NAMUR        |                                                           |                                    |                                    |                                    |                                    |
| Analogue     | Current output<br>Voltage output                          |                                    |                                    |                                    |                                    |
| 2-wire       | DC<br>AC                                                  |                                    |                                    |                                    |                                    |

### Technical data

|                                      |       |           |           |           |           |
|--------------------------------------|-------|-----------|-----------|-----------|-----------|
| Rated operating voltage              | $U_B$ | 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC |
| Rated operating current              | $I_B$ | 200 mA    | 200 mA    | 200 mA    | 200 mA    |
| Switching frequency (max)            | F     | > 250 Hz  | 500 Hz    | 500 Hz    | 500 Hz    |
| Short circuit-protection             |       | Cyclic    | Cyclic    | Cyclic    | Cyclic    |
| Function/operating voltage indicator |       | LED/–     | LED/–     | LED/–     | LED/–     |
| Sensitivity adjustable               |       | Yes       | Yes       | Yes       | Yes       |
| Teachable                            |       |           |           |           |           |
| Timer function                       |       |           |           |           |           |
| Diagnostic function                  |       |           |           |           |           |
| Type of light                        |       | IR 880 nm | IR 880 nm | IR 880 nm | IR 880 nm |

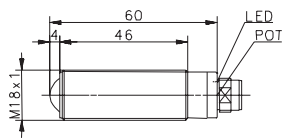
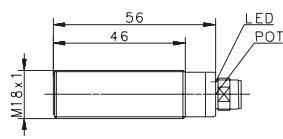
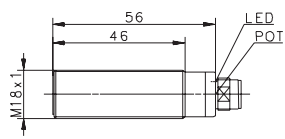
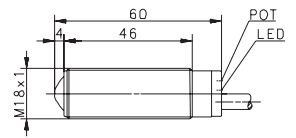
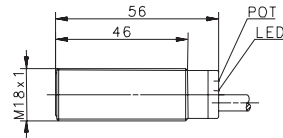
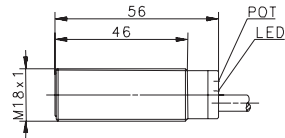
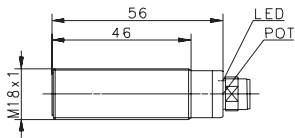
### Mechanical data

|                                                       |                          |                        |             |                          |
|-------------------------------------------------------|--------------------------|------------------------|-------------|--------------------------|
| Ambient temperature (min/max)                         | –20°C/+80°C              | –20°C/+70°C            | –20°C/+70°C | –20°C/+70°C              |
| Protection class in accordance with IEC 529, EN 60529 | IP65                     | IP67                   | IP67        | IP67                     |
| Enclosure material                                    | PA, red                  | Stainless steel 1.4305 | CuZn39Pb3   | PBT                      |
| Connection                                            | 4 x 0.25 mm <sup>2</sup> | M12 x 1                | M12 x 1     | 4 x 0.34 mm <sup>2</sup> |

Please refer to Accessories for reflectors, mounting brackets, cable couplers and sensor tester.



| M18                              | M18                              | M18                              | M18                              | M18                              | M18                            | M18                            |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|--------------------------------|
| Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Diffuse-reflection sensor Type D | Retro-reflective sensor Type R | Retro-reflective sensor Type R |
| 300 mm                           | 500 mm                           | 500 mm                           | 500 mm                           | 500 mm                           | 2.5 m                          | 2.5 m                          |
| Connector M12                    | Cable 2 m                        | Connector M12                    | Cable 2 m                        | Connector M12                    | Cable 2 m                      | Connector M12                  |
|                                  |                                  |                                  |                                  |                                  | Glass lens                     | Glass lens                     |



|                                    |  |                                    |                                    |                                    |                                    |                                    |                                    |
|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 6557818003<br>OT18RT-DPTP-0300-SLE |  | 6557817004<br>OM18RT-DPTP-0500-CLE | 6557816006<br>OM18RT-DPTP-0500-SLE | 6557819006<br>OT18RT-DPTP-0500-CLE | 6557818006<br>OT18RT-DPTP-0500-SLE | 6555819003<br>OT18PS-DPTP-02.5-CLE | 6555818001<br>OT18PS-DPTP-02.5-SLE |
| 6557218005<br>OT18RT-DPTN-0300-SLE |  | 6557217003<br>OM18RT-DPTN-0500-CLE |                                    |                                    |                                    |                                    |                                    |
|                                    |  |                                    |                                    |                                    |                                    |                                    |                                    |
|                                    |  |                                    |                                    |                                    |                                    |                                    |                                    |
|                                    |  |                                    |                                    |                                    |                                    |                                    |                                    |
|                                    |  |                                    |                                    |                                    |                                    |                                    |                                    |

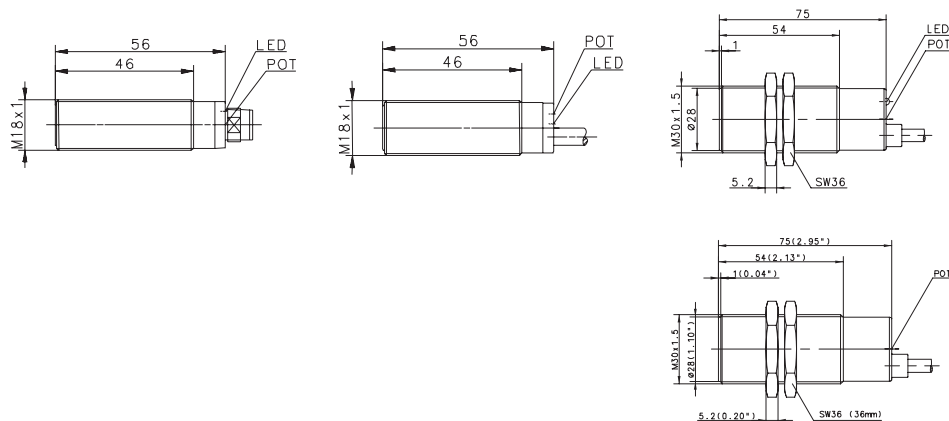
|           |           |           |           |           |            |            |
|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC  | 10–36 VDC  |
| 200 mA    | 200 mA    | 200 mA    | 200 mA    | 200 mA    | 200 mA     | 200 mA     |
| 500 Hz    | 500 Hz    | 500 Hz    | 500 Hz    | 500 Hz    | 500 Hz     | 500 Hz     |
| Cyclic    | Cyclic    | Cyclic    | Cyclic    | Cyclic    | Cyclic     | Cyclic     |
| LED/–     | LED/–     | LED/–     | LED/–     | LED/–     | LED/–      | LED/–      |
| Yes       | Yes       | Yes       | Yes       | Yes       | Yes        | Yes        |
|           |           |           |           |           |            |            |
|           |           |           |           |           |            |            |
|           |           |           |           |           |            |            |
|           |           |           |           |           |            |            |
| IR 880 nm | IR 880 nm | IR 880 nm | IR 880 nm | IR 880 nm | red 660 nm | red 660 nm |

|             |                          |             |                          |             |                          |             |
|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| –20°C/+70°C | –20°C/+70°C              | –20°C/+70°C | –20°C/+70°C              | –20°C/+70°C | –20°C/+70°C              | –20°C/+70°C |
| IP67        | IP67                     | IP67        | IP67                     | IP67        | IP67                     | IP67        |
| PBT         | CuZn39Pb3                | CuZn39Pb3   | PBT                      | PBT         | PBT, black               | PBT, black  |
| M12 x 1     | 4 x 0.34 mm <sup>2</sup> | M12 x 1     | 4 x 0.34 mm <sup>2</sup> | M12 x 1     | 4 x 0.34 mm <sup>2</sup> | M12 x 1     |



## Optoelectronic Sensors (Type M18, M30)

| Type               | M18                        | M18                        | M30                              |
|--------------------|----------------------------|----------------------------|----------------------------------|
| Operating mode     | Through-beam sensor Type T | Through-beam sensor Type T | Diffuse-reflection sensor Type D |
| Sensing range      | 8 m                        | 8 m                        | 200 mm                           |
| Type of connection | Connector M12              | Cable 2 m                  | Cable 6 m                        |
| Special feature    |                            |                            | Diffuse-reflection sensor Type D |



|              |                      |                      |                      |  |                     |
|--------------|----------------------|----------------------|----------------------|--|---------------------|
| PNP          | Light activated Type |                      |                      |  | 6557005006          |
|              | Dark activated Type  |                      |                      |  | OT30RT-DDAP-0500-CE |
|              | Programmable Type    |                      |                      |  |                     |
| NPN          | Light activated Type |                      |                      |  |                     |
|              | Dark activated Type  |                      |                      |  |                     |
|              | Programmable Type    |                      |                      |  |                     |
| Transmitter  | Type                 | 6551021001           | 6551019001           |  |                     |
|              |                      | ON18SE-DOOS-08.0-SCV | OT18SE-DOOS-08.0-CCV |  |                     |
| Relay output |                      |                      |                      |  |                     |
| NAMUR        |                      |                      |                      |  |                     |
| Analogue     | Current output       |                      |                      |  |                     |
|              | Voltage output       |                      |                      |  |                     |
| 2-wire       | DC                   |                      |                      |  |                     |
|              | AC                   |                      |                      |  |                     |

### Technical data

|                                      |       |           |           |           |           |
|--------------------------------------|-------|-----------|-----------|-----------|-----------|
| Rated operating voltage              | $U_B$ | 10–36 VDC | 10–36 VDC | 10–36 VDC | 10–36 VDC |
| Rated operating current              | $I_B$ | 200 mA    | 200 mA    | 200 mA    | –         |
| Switching frequency (max)            | F     | 500 Hz    | 500 Hz    | > 250 Hz  | –         |
| Short circuit-protection             |       | Cyclic    | Cyclic    | Yes       | Yes       |
| Function/operating voltage indicator |       | LED/–     | LED/–     | LED/–     | –/–       |
| Sensitivity adjustable               |       | –         | –         | Yes       | Yes       |
| Teachable                            |       |           |           |           |           |
| Timer function                       |       |           |           |           |           |
| Diagnostic function                  |       |           |           |           |           |
| Type of light                        |       | IR 880 nm | IR 880 nm | IR 880 nm | IR 880 nm |

### Mechanical data

|                                                       |                        |                          |                         |                         |
|-------------------------------------------------------|------------------------|--------------------------|-------------------------|-------------------------|
| Ambient temperature (min/max)                         | –20°C/+70°C            | –20°C/+70°C              | –20°C/+80°C             | –20°C/+80°C             |
| Protection class in accordance with IEC 529, EN 60529 | IP67                   | IP67                     | IP65                    | IP65                    |
| Enclosure material                                    | Stainless steel 1.4305 | PBT, black               | PA                      | PA                      |
| Connection                                            | M12 x 1                | 4 x 0.34 mm <sup>2</sup> | 3 x 0.5 mm <sup>2</sup> | 3 x 0.5 mm <sup>2</sup> |

Please refer to Accessories for reflectors, mounting brackets, cable couplers and sensor tester.



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