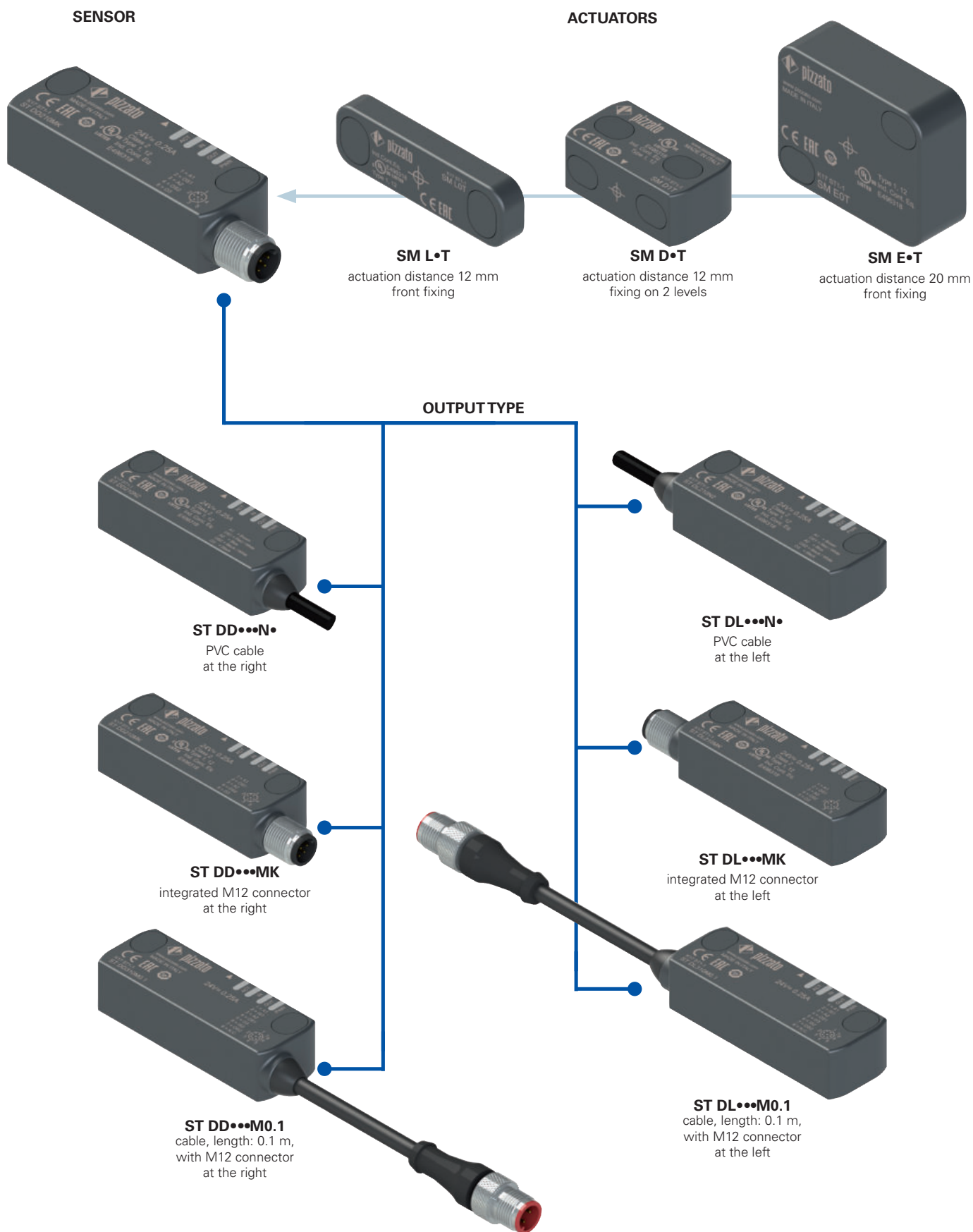


## Selection diagram



—●— product option  
—→— sold separately as accessory



**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

## Code structure for sensor with actuator

# ST DD420N2-D1T

### Output direction, connections

|          |                     |
|----------|---------------------|
| <b>D</b> | output at the right |
| <b>L</b> | output at the left  |

### Inputs and outputs

|           | OS<br>safety<br>outputs | O<br>signalling<br>outputs | IS<br>safety<br>inputs | I<br>programming<br>inputs | EDM<br>inputs |
|-----------|-------------------------|----------------------------|------------------------|----------------------------|---------------|
| <b>21</b> | 2                       | 1                          | -                      | -                          | -             |
| <b>31</b> | 2                       | 1                          | 2                      | -                          | -             |
| <b>42</b> | 2                       | 1                          | 2                      | 1                          | -             |
| <b>51</b> | 2                       | 1                          | 2                      | -                          | 1             |
| <b>61</b> | 2                       | 1 (inverted)               | -                      | -                          | -             |
| <b>71</b> | 2                       | 1 (inverted)               | 2                      | -                          | -             |
| <b>82</b> | 2                       | 1 (inverted)               | 2                      | 1                          | -             |

Note: versions 21, 31, 51, 61, 71 are only supplied together with an actuator

### Supply voltage

|          |               |
|----------|---------------|
| <b>0</b> | 24 Vdc        |
| <b>1</b> | 12 ... 24 Vdc |

### Cable or connector type

|          |  |
|----------|--|
| <b>N</b> | PVC cable, IEC 60332-1-2 oil resistant (standard)                                  |
| <b>H</b> | PUR cable, halogen free<br>(not available with versions ST D•2•••• and ST D•6••••) |
| <b>M</b> | M12 connector  |

### Actuator

|            |   |
|------------|---|
| <b>D0T</b> | standard actuator<br>low level of coding<br>the sensor recognises any type D0T actuator             |
| <b>D1T</b> | standard actuator<br>high level of coding<br>the sensor recognises one single type D1T actuator     |
| <b>E0T</b> | Large actuator<br>low level of coding<br>the sensor recognises any type E0T actuator                |
| <b>E1T</b> | Large actuator<br>high level of coding<br>the sensor recognises one single type E1T actuator        |
| <b>L0T</b> | miniaturized actuator<br>low level of coding<br>the sensor recognises any type L0T actuator         |
| <b>L1T</b> | miniaturized actuator<br>high level of coding<br>the sensor recognises one single type L1T actuator |

### Connection type

|            |  |
|------------|--|
| <b>0.1</b> | cable, length: 0.1 m, with M12 connector |
| <b>0.5</b> | cable, length: 0.5 m                     |
| <b>...</b> | ....                                     |
| <b>2</b>   | cable, length: 2 m (standard)            |
| <b>...</b> | ....                                     |
| <b>10</b>  | cable, length: 10 m                      |
| <b>K</b>   | integrated M12 connector                 |

**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

## Code structure for single sensor

# ST DD420N2

### Output direction, connections

|          |                     |
|----------|---------------------|
| <b>D</b> | output at the right |
| <b>L</b> | output at the left  |

### Inputs and outputs

|           | OS<br>safety<br>outputs | O<br>signalling<br>outputs | IS<br>safety<br>inputs | I<br>programming<br>inputs |
|-----------|-------------------------|----------------------------|------------------------|----------------------------|
| <b>42</b> | 2                       | 1                          | 2                      | 1                          |
| <b>82</b> | 2                       | 1 (inverted)               | 2                      | 1                          |

### Supply voltage

|          |               |
|----------|---------------|
| <b>0</b> | 24 Vdc        |
| <b>1</b> | 12 ... 24 Vdc |

### Connection type

|            |  |
|------------|--|
| <b>0.1</b> | cable, length: 0.1 m, with M12 connector |
| <b>0.5</b> | cable, length: 0.5 m                     |
| <b>...</b> | ....                                     |
| <b>2</b>   | cable, length: 2 m (standard)            |
| <b>...</b> | ....                                     |
| <b>10</b>  | cable, length: 10 m                      |
| <b>K</b>   | integrated M12 connector                 |

### Cable or connector type

|          |  |
|----------|--|
| <b>N</b> | PVC cable, IEC 60332-1-2 oil resistant (standard)                  |
| <b>H</b> | PUR cable, halogen free<br>(not available with version ST D•2••••) |
| <b>M</b> | M12 connector  |

**Attention!** Individual sensors are initially programmed with the code of the actuators with low coding level •0T.  
**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

## Code structure for actuator

# SM D1T

### Design and actuation distance

|          |   |
|----------|---|
| <b>D</b> | standard actuator<br>actuation distance 12 mm     |
| <b>E</b> | large actuator<br>actuation distance 20 mm        |
| <b>L</b> | miniaturized actuator<br>actuation distance 12 mm |

### Actuator

|           |   |
|-----------|---|
| <b>0T</b> | low level coded actuator<br>the sensor recognises any type •0T actuator         |
| <b>1T</b> | high level coded actuator<br>the sensor recognises one single type •1T actuator |