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Your Global Automation Partner



Q300 Accessories Antennas and Cables



Products are linked with further information.

External UHF Antennas

Passive UHF RFID antennas for different applications

The Q300 UHF read/write head can be connected to a maximum of four different external antennas for detecting tags. The advantage is that individual applications have different requirements for the detection range and field characteristics of antennas. This means an in/outbound solution in a distribution center can look different from the production of individual products.

Logistics

For logistics processes to run smoothly, incoming and outgoing goods must be detected shortly before they are unloaded from or loaded onto the truck. The pre-programmable multiplex operating concept of the Q300 read/write head responds to the antennas alternately to ensure rapid detection of all tags on the pallets. The tags are reliably detected, even when the truck passes through at high speed and regardless of the position and distance of the tags in relation to the antennas. These advantages make it possible to use the large antennas that are often associated with logistics applications. These antennas generally benefit from high reading ranges as well as a small opening angle, allowing them to provide a concentrated field distribution and thus focus on detecting the tags on the pallet.



Gate applications in logistic processes

Production

Small antennas are ideal for detecting individual products or goods during production. These antennas work well when mounted on conveyor belts as they do not require much space. These antennas are often used for single-tag applications with shorter ranges than those associated with logistics applications (short-range or mid-range). The distance between the tag and the antenna is often quite short in single-tag applications (e.g. less than 1 m). A low radiated power is therefore sufficient to reliably detect the tag.



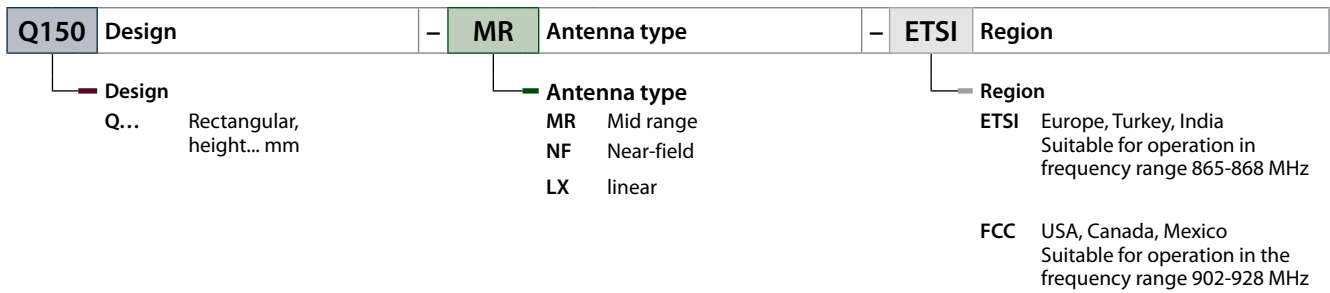
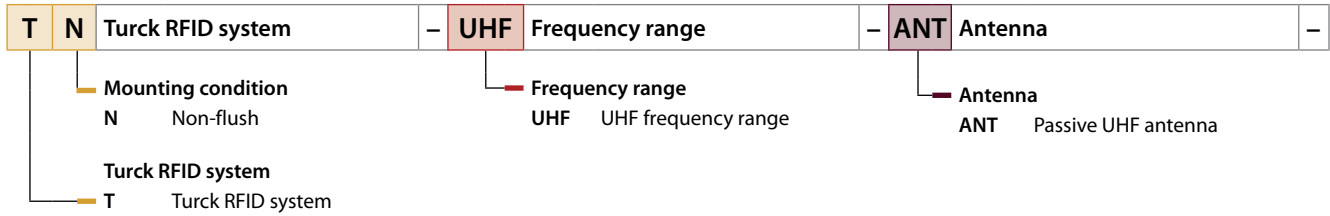
Detection of individual production goods on a conveyor belt

Contents

| | |
|--|----|
| External UHF Antennas | |
| Passive UHF RFID antennas for different applications | 2 |
| Type Code | |
| External UHF antennas | 4 |
| External UHF Antennas | |
| Passive UHF RFID antennas – Technical data | 5 |
| Type Code | |
| Coaxial cable | 6 |
| Coaxial Cable | |
| HF240 – Technical data – Connectors | 7 |
| Type Code | |
| Cables | 8 |
| Cables | |
| Cables – I/O signals – M12 – Ethernet | 9 |
| Type Code | |
| Power supply | 10 |
| Power Supply | |
| Power supply | 11 |
| Accessories | |
| Signal Lights | 12 |
| Display Lights | 13 |



Type Code – External UHF Antennas

T N - UHF - ANT - Q150 - MR - ETSI





External UHF Antennas

TN-UHF-Q150...



| | ID | Type designation | Description |
|---|-----------|---|---|
|  | 100028594 | TN-UHF-ANT-NF-Q150-ETSI-FCC | Suitable for global use 865-928 MHz External UHF near field antenna for ranges up to approx. 10 cm, dimension 150 × 150 mm |
| | 100047588 | TN-UHF-Q150-MR-ETSI | Suitable for operation in the ETSI-frequency range 865-928 MHz External UHF antenna for ranges up to approx. 1 m, dimension 150 × 150 mm |
| | 100047589 | TN-UHF-Q150-MR-FCC | Suitable for operation in the FCC-frequency range 902-928 MHz |
| | 100028595 | TN-UHF-ANT-Q150-ETSI | Suitable for operation in the ETSI-frequency range 865-868 MHz External UHF antenna for ranges up to approx. 2 m, dimension 150 × 150 mm |
| | 100028596 | TN-UHF-ANT-Q150-FCC | Suitable for operation in the FCC-frequency range 902-928 MHz |
| Accessories | ID | Type designation | Description |
|  | 100028607 | TN-UHF-ACCSY-Q150-PROTECT | Protective plate for SMA connection against mechanical damage |

TN-UHF-Q250...


| | ID | Type designation | Description |
|---|-----------|---|--|
|  | 100028599 | TN-UHF-ANT-Q250-ETSI | Suitable for operation in the ETSI-frequency range 865-868 MHz External UHF antenna for standard indoor gate applications, dimension 250 × 250 mm, VESA100 pins |
| | 100028600 | TN-UHF-ANT-Q250-FCC | Suitable for operation in the FCC-frequency range 902-928 MHz |
| Accessories | ID | Type designation | Description |
|  | 100028606 | TN-UHF-ACCSY-Q250-PROTECT | Protective plate for SMA connection against mechanical damage |

Note
Upon request, Q250 antennas without integrated VESA100 bracket are also available.

TN-UHF-Q300L600...

| | ID | Type designation | Description |
|---|-----------|--|--|
|  | 100047592 | TN-UHF-ACCSY-VESA100-MOUNT | Suitable for operation in the ETSI-frequency range 865-868 MHz External UHF antenna, dimension 300 × 600 mm |
| | 100047593 | TN-UHF-ANT-Q300L600-FCC | Suitable for operation in the FCC-frequency range 902-928 MHz |
| Accessories | ID | Type designation | Description |
|  | 100047594 | TN-UHF-ACCSY-Q300L600-VESA100 | Adapter plate for mounting on VESA100-bracket |

Accessories for all antennas

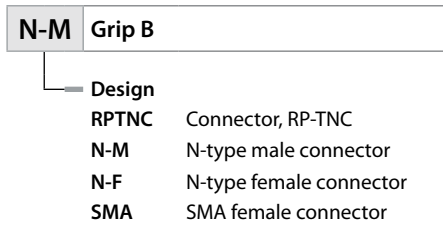
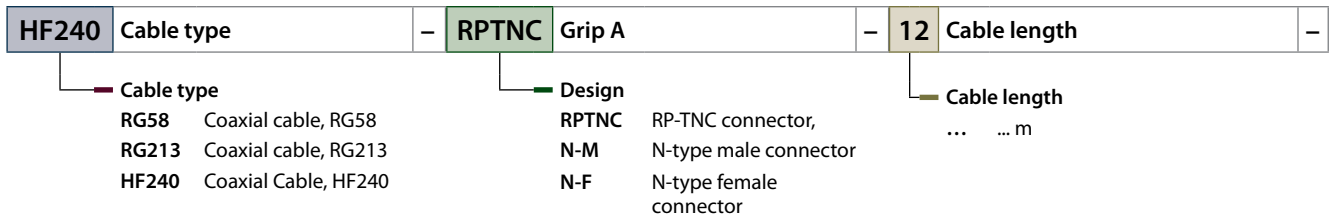
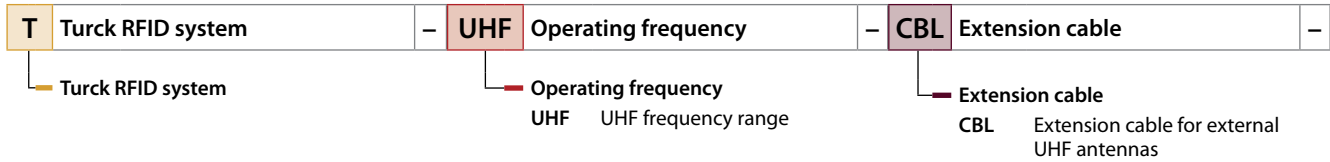
| Accessories | ID | Type designation | Description |
|---|-----------|--|-------------|
|  | 100029071 | TN-UHF-ACCSY-VESA100-MOUNT | Bracket |



Products are linked with further information.

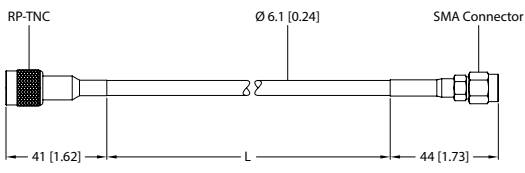
Type Code – Coaxial Cable

T - **UHF** - **CBL** - **HF240** - **RPTNC** - **12** - **N-M**



Coaxial Cable

HF240

| Dimensions | ID | Type designation | Description |
|---|-----------|---|---|
|  | 100028191 | TN-UHF-CBL-HF240-RPTNC-1-SMA | HF240 coaxial cable with SMA connection |
| | 100028192 | TN-UHF-CBL-HF240-RPTNC-2-SMA | |
| | 100028193 | TN-UHF-CBL-HF240-RPTNC-4-SMA | |
| | 100028194 | TN-UHF-CBL-HF240-RPTNC-6-SMA | |
| | 100028195 | TN-UHF-CBL-HF240-RPTNC-8-SMA | |
| | 100028196 | TN-UHF-CBL-HF240-RPTNC-10-SMA | |
| | 100028197 | TN-UHF-CBL-HF240-RPTNC-12-SMA | |

Technical data

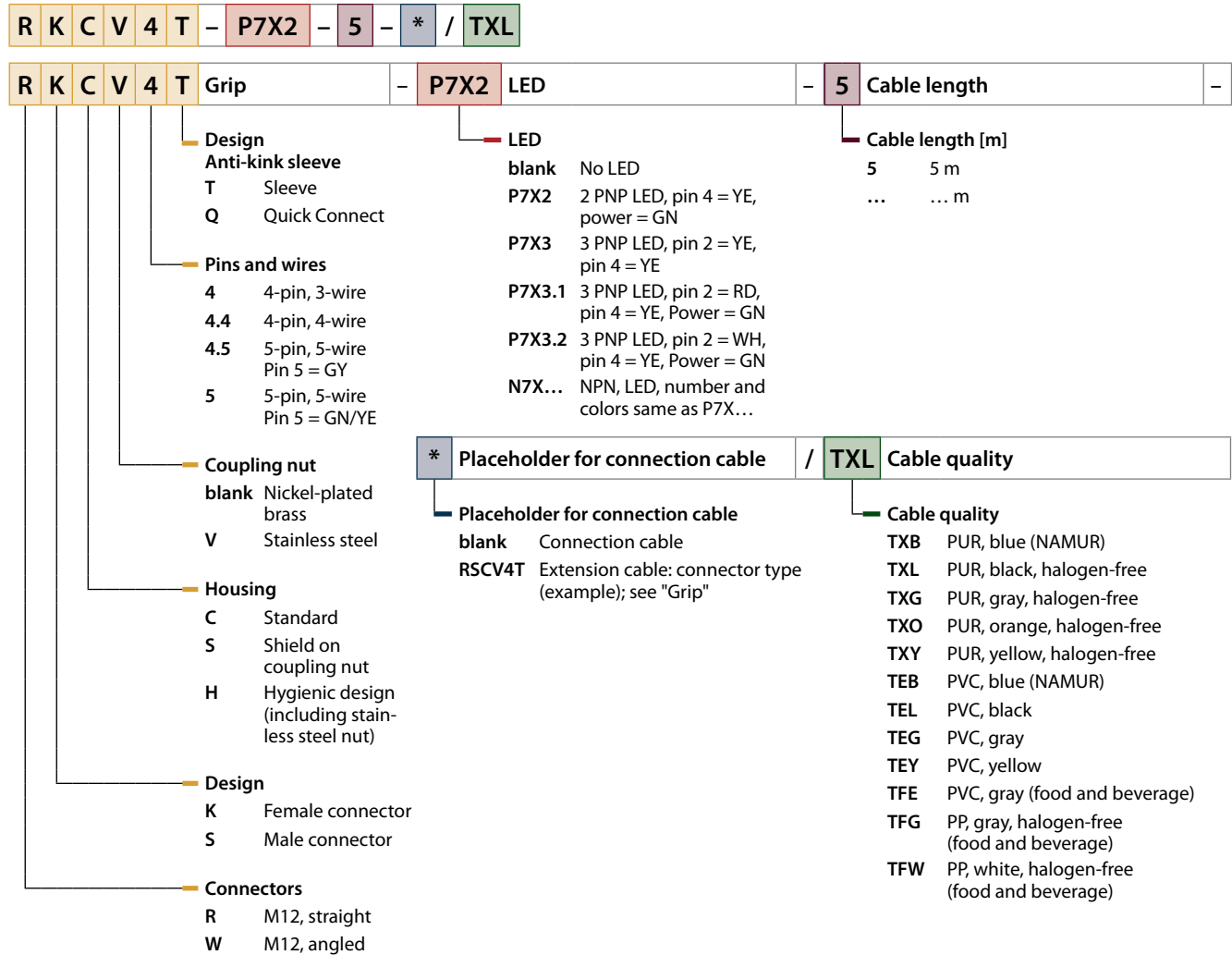
| HF240 | |
|-----------------------|---|
| Diameter [mm] | 6.1 |
| Cable attenuation | Low |
| Mechanical properties | Compromise between flexibility and mechanical load capacity |
| Max. length [m] | 12 |



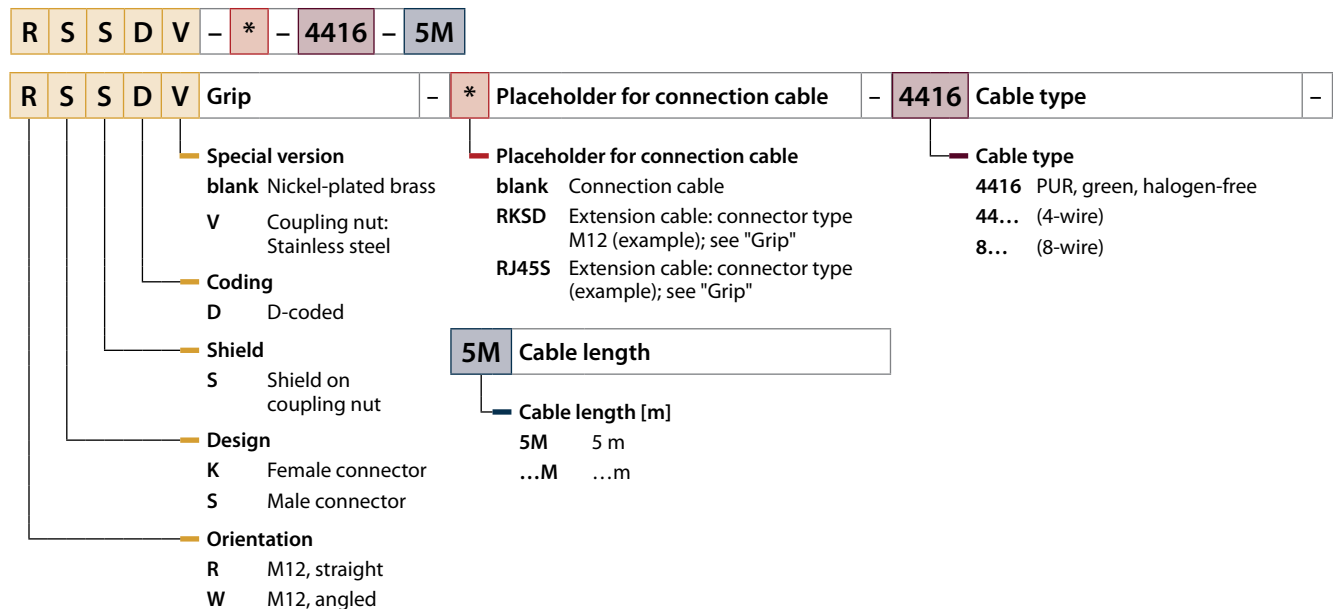
Products are linked with further information.

Type Code – Cables

I/O signals – M12



Ethernet



Cables

I/O signals – M12

| Dimensions | ID | Type designation | Length | Description |
|------------|---------|---|--------|--|
| | 6625601 | RKC4T-0.3-RSC4T/TXL | 0.3 m | M12, 4-pin, 3-wire, female straight, male straight (for DXP-1-channel) |
| | 6625602 | RKC4T-0.6-RSC4T/TXL | 0.6 m | |
| | 6625603 | RKC4T-1-RSC4T/TXL | 1 m | |
| | 6625604 | RKC4T-2-RSC4T/TXL | 2 m | |
| | 6625730 | RKC4T-5-RSC4T/TXL | 5 m | |
| | 6626393 | RKS4.5T-0.3-RSS4.5T/TXL | 0.3 m | M12, 5-pin, 5-wire, shielded, female straight, male straight (for DXP-2-channel) |
| | 6626394 | RKS4.5T-0.6-RSS4.5T/TXL | 0.6 m | |
| | 6626395 | RKS4.5T-1-RSS4.5T/TXL | 1 m | |
| | 6626396 | RKS4.5T-2-RSS4.5T/TXL | 2 m | |
| | 6626464 | RKS4.5T-3-RSS4.5T/TXL | 3 m | |
| | 6627630 | RKS4.5T-5-RSS4.5T/TXL | 5 m | |
| | 6626815 | RKS4.5T-10-RSS4.5T/TXL | 10 m | |

Ethernet

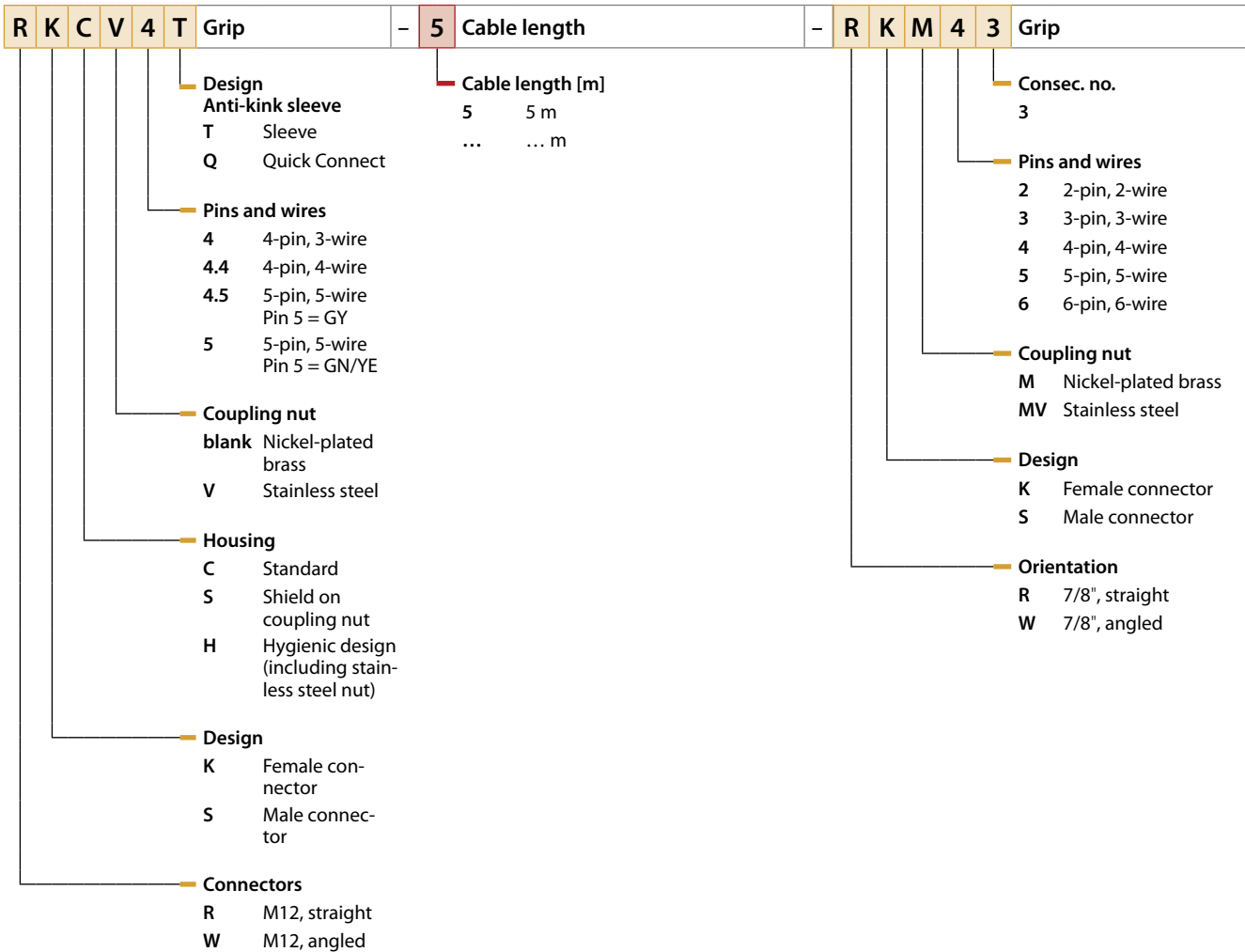
| Dimensions | ID | Type designation | Length | Description |
|------------|---------|-------------------------------------|--------|---|
| | 6635170 | RSSD-RJ45S-4422-2M | 2 m | M12, 4-pin, to RJ45, male straight, male straight |
| | 6635171 | RSSD-RJ45S-4422-5M | 5 m | |
| | 6635172 | RSSD-RJ45S-4422-10M | 10 m | |



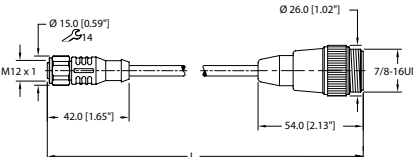

Products are linked with further information.

Type Code – Power Supply

R K C V 4 T - 5 - R K M 4 3



Power Supply

| Dimensions | ID | Type designation | Length | Description |
|---|---------|---|--------|--|
|  | UX18415 | RKC 4.4T-0.5-RSM 40/S3520 | 0.5 m | M12 to 7/8", 4-pin, female straight, male straight |
| | UX18416 | RKC 4.4T-2-RSM 40/S3520 | 2 m | |
| | UX14184 | RKC 4.4T-3-RSM 40/S3520 | 3 m | |
| | UX14185 | RKC 4.4T-5-RSM 40/S3520 | 5 m | |
|  | 6625524 | RKC4T-2/TXL | 2 m | M12, 4-pin, 3-wire, male straight, end open |
| | 6625525 | RKC4T-5/TXL | 5 m | |



Products are linked with further information.

Accessories – Signal Lights

| Dimension drawing | ID | Type code | Description |
|-------------------|---------|--------------------------------------|--|
| | 3087256 | TL50HGRA6PQMA-87256 | Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the colors and beeper via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow (COL 2), Beep (COL 1 and COL 2) |
| | 3091210 | TL50BLGYR6QPMA-91210 | Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the colors and beeper via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow (COL 2), Red (COL 1 and 2) |
| | 3094576 | TL50BLGY1R26PQ-94576 | Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, M12 connector x 1, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the three colors via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow rotating (COL 2), Red flashing (COL 1 and 2) |



Products are linked with further information.

Accessories – Display Lights

The display lights are supported with the following type code:

| Product family | Color 1 | Color 2 | Color 3 | Input | Connection |
|----------------|--------------|--------------|--------------|---------|------------------------------------|
| CL50 | G (green) | X (not used) | G (green) | P (PNP) | Q (connector, M12 × 1) |
| K30L | B (blue) | | B (blue) | | QP (cable with connector, M12 × 1) |
| K50B(C)L | Y (yellow) | | Y (yellow) | | |
| K50FL | R (red) | | R (red) | | |
| K50L | W (white) | | W (white) | | |
| K50LD | X (not used) | | X (not used) | | |
| K80FDL | | | | | |
| K80L | | | | | |
| M18 | | | | | |
| S18DL | | | | | |
| S18DLH | | | | | |
| S18L | | | | | |
| S22DL | | | | | |
| S22DLH | | | | | |
| S22L | | | | | |
| T18 | | | | | |
| T30 | | | | | |
| T8L | | | | | |

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100004525 | 2024/07



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