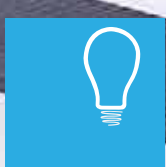
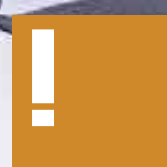


ms[®] guide

Edition 01/2018



FA series
Photoelectric cylindrical M18

99 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | |
|-------------------------|---------------------|---------------|-------|---|---|---|---|---|
| background suppression | 30...130 mm | ● | FARS/ | B | P | - | 0 | A |
| | 35...300 mm | ● | FARW/ | B | P | - | 0 | A |
| direct diffuse | 100 mm | - | FAR2/ | B | P | - | 0 | A |
| | | ● | FAR3/ | B | P | - | 0 | A |
| | 400 mm | - | FAI6/ | B | P | - | 0 | A |
| | | ● | FAI7/ | B | P | - | 0 | A |
| | | ● | FAI8/ | B | P | - | 0 | A |
| 1.000 mm ⁽¹⁾ | - | FAI9/ | B | P | - | 0 | A | |
| | ● | FARP/ | B | P | - | 0 | A | |
| polarized | 4 m ⁽²⁾ | ● | FARN/ | B | P | - | 0 | A |
| reflex | 5 m ⁽³⁾ | - | FAIC/ | B | P | - | 0 | A |
| | | ● | FAIM/ | B | P | - | 0 | A |
| receiver | 20 m ⁽⁴⁾ | - | FAIZ/ | B | P | - | 0 | A |
| | | ● | FAID/ | B | P | - | 0 | A |
| NO/NC selectable output | | | B | | | | | |
| PNP logic | | | P | | | | | |
| NPN logic | | | N | | | | | |
| emitter | - | without check | FAIH/ | 0 | 0 | - | 0 | A |
| | | with check | FAIH/ | X | 0 | - | 0 | A |
| plastic axial body | | | 0 | | | | | |
| metallic axial body | | | 1 | | | | | |
| plastic housing a 90° | | | 2 | | | | | |
| 90° metallic body | | | 3 | | | | | |
| cable exit | | | A | | | | | |
| M12 plug exit | | | E | | | | | |

⁽¹⁾ 90° models, sensing range: 800 mm ⁽³⁾ 90° models, sensing range: 2,5 m
⁽²⁾ 90° models, sensing range: 4 m ⁽⁴⁾ models, sensing range: 16 m

SS and MST series
Fixed distance background suppression

147 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | |
|------------------------------|---------------|------------|-------|---|---|---|---|---|
| background suppression (BGS) | 50 mm | - | SS0/ | 0 | P | - | 0 | A |
| | 100 mm | - | SS1/ | 0 | P | - | 0 | A |
| BGS focalized ⁽¹⁾ | 12 mm / 25 mm | - | MST/ | 0 | 0 | - | 0 | A |
| NO/NC selectable output | | | 0 | | | | | |
| PNP logic | | | P | | | | | |
| NPN logic | | | N | | | | | |
| plastic axial body | | | 0 | | | | | |
| metallic axial body | | | 1 | | | | | |
| cable exit | | | A | | | | | |
| M12 plug exit | | | E | | | | | |

⁽¹⁾ use with STF12 or STF25 focusers

QM series
Miniaturized Photoelectric Sensor (infrared emission)

147 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | |
|--------------------------------|-------------|------------|--------|---|---|---|---|---|
| background suppression (BGS) | 30...400 mm | | QMIS/ | 0 | P | - | 0 | A |
| | 400 mm | | QM17/ | 0 | P | - | 0 | A |
| | 1.500 mm | ● | QM19/ | 0 | P | - | 0 | A |
| BGS (focalized) | 7 m | ● | QMIC/ | 0 | P | - | 0 | A |
| reflex for transparent objects | 0,05...1 m | ● | QMIG/ | 0 | P | - | 0 | A |
| emitter + receiver | 30 m | ● | QMRHD/ | 0 | P | - | 0 | A |
| NO/NC selectable output | | | 0 | | | | | |
| PNP logic | | | P | | | | | |
| NPN logic | | | N | | | | | |
| plastic housing | | | 0 | | | | | |
| cable exit | | | A | | | | | |
| M8 plug exit | | | F | | | | | |

MS series - DECOUT
Fotoelettrici cilindrici M18

117 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | |
|-------------------------------|---------------|---------------|-------|---|---|---|---|---|
| background suppression (BGS) | 50 mm | - | MS0/ | 0 | 0 | - | 0 | A |
| | 100 mm | - | MS1/ | 0 | 0 | - | 0 | A |
| BGS focalized ⁽¹⁾ | 12 mm / 25 mm | - | MST/ | 0 | 0 | - | 0 | A |
| direct diffuse | 100 mm | - | MS2/ | 0 | 0 | - | 0 | A |
| | | ● | MS3/ | 0 | 0 | - | 0 | A |
| | 200 mm | - | MS4/ | 0 | 0 | - | 0 | A |
| | | ● | MS7/ | 0 | 0 | - | 0 | A |
| 400 mm | - | MS6/ | 0 | 0 | - | 0 | A | |
| | ● | MS7/ | 0 | 0 | - | 0 | A | |
| reflex | 4,5 m | - | MSC/ | 0 | 0 | - | 0 | A |
| polarized | 3,5 m | - | MSP/ | 0 | 0 | - | 0 | A |
| receiver | 16 m | - | MSN/ | 0 | 0 | - | 0 | A |
| | | ● | MSR/ | 0 | 0 | - | 0 | A |
| 32 m | - | MSD/ | 0 | 0 | - | 0 | A | |
| | ● | MSD/ | 0 | 0 | - | 0 | A | |
| NO/NC selectable output | | | P | | | | | |
| PNP / NPN logic selezionabile | | | N | | | | | |
| emitter | - | without check | MSE/ | 0 | 0 | - | 0 | A |
| | | with check | MSE/ | X | 0 | - | 0 | A |
| plastic axial body | | | 0 | | | | | |
| metallic axial body | | | 1 | | | | | |
| cable exit | | | A | | | | | |
| M12 plug exit | | | E | | | | | |

⁽¹⁾ use with STF12 or STF25 focusers

Serie FAL - LASER

83 product catalogue

CE c UL US


| type | range | adjustment | model | | | | | |
|----------------------------|--|------------|-------|---|---|---|---|---|
| background suppression | 30...100 mm ⁽¹⁾ | | FALS/ | B | P | - | 1 | E |
| | 30...150 mm ⁽¹⁾ | | FALW/ | B | P | - | 1 | E |
| | 25...120 mm ⁽¹⁾⁽²⁾ | | FALW/ | B | P | - | 1 | E |
| direct diffuse (focalized) | 300 mm 200 mm ⁽²⁾ | | FAL4/ | B | P | - | 0 | A |
| polarized | 20 m (con RL110) 30 m (con RL201) 5 m (con RL100D) | | FALN/ | B | P | - | 0 | A |
| receiver | 50 m | | FALD/ | B | P | - | 0 | A |
| NO/NC selectable output | | | 0 | | | | | |
| PNP logic | | | P | | | | | |
| NPN logic | | | N | | | | | |
| emitter | 50 m | with check | FALH/ | X | 0 | - | 0 | A |
| | | | FALH/ | X | 0 | - | 0 | A |
| plastic axial body | | | 0 | | | | | |
| metallic axial body | | | 1 | | | | | |
| plastic housing a 90° | | | 2 | | | | | |
| 90° metallic body | | | 3 | | | | | |
| cable exit | | | A | | | | | |
| M12 plug exit | | | E | | | | | |

⁽¹⁾ only with metallic body and M12 plug exit (-1E or -3E versions)
⁽²⁾ 90° versions

LASER M18 Photoelectric Sensor FAL

- Visible class 1 and class 2 red laser emission.
- IP67 protection degree.
- Diffuse, polarized, through beam models.
- Metal or plastic housing, axial or radial (90°) optic.
- Background suppression models, axial and 90° optics.
- ATEX certified (cat.3) models available.
- High sensing distance.

QM series
Cubic photoelectric sensor
(red emission)



177 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | | |
|-----------------------------------|-------------|------------|-------|---|---|---|---|---|--|
| background suppression | 30...200 mm | ● | QMR5/ | 0 | P | - | 0 | A | |
| direct diffuse | 100 mm | ● | QMRB/ | 0 | P | - | 0 | A | |
| | 400 mm | ● | QMR7/ | 0 | P | - | 0 | A | |
| | 1.000 mm | ● | QMR8/ | 0 | P | - | 0 | A | |
| polarized | 5 m | ● | QMRN/ | 0 | P | - | 0 | A | |
| polarized for transparent objects | 4 m | ● | QMRL/ | 0 | P | - | 0 | A | |
| | 1,5 m | ● | QMRG/ | 0 | P | - | 0 | A | |
| emitter + receiver | 20 m | ● | QMRG/ | 0 | P | - | 0 | A | |
| NO/NC selectable output | | | | 0 | | | | | |
| PNP logic | | | | | | | | P | |
| NPN logic | | | | | | | | N | |
| plastic housing | | | | | | | | 0 | |
| cable exit | | | | | | | | A | |
| M8 plug exit | | | | | | | | F | |

Q50 series
Cubic photoelectric
(miniaturized)




213 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | | |
|--|--------------|------------|--------|---|---|---|---|---|--|
| background suppression | 130...500 mm | ● | Q50IS/ | B | 0 | - | 0 | A | |
| direct diffuse | 1 m | ● | Q50I6/ | B | 0 | - | 0 | A | |
| | 2 m | ● | Q50I8/ | B | 0 | - | 0 | A | |
| polarized | 6 m | ● | Q50RN/ | B | 0 | - | 0 | A | |
| receiver | 20 m | ● | Q50ID/ | B | 0 | - | 0 | A | |
| Lo + Do (complementary outputs) ⁽¹⁾ | | | | | | | | B | |
| Lo/Do selectable | | | | | | | | 0 | |
| emitter | 20 m | - | Q50IH/ | | | | | 0 | |
| 10...30 Vdc supply | | | | | | | | 0 | |
| 12...240 Vdc / 24...240 Vac supply | | | | | | | | T | |
| plastic housing | | | | | | | | 0 | |
| cable exit | | | | | | | | A | |
| M12 plug exit | | | | | | | | E | |

⁽¹⁾ available only with 10...30 Vdc supply

RX series
Maxi photoelectric sensors



229 product catalogue

CE c UL US

| type | range | adjustment | model | | | | | | |
|-----------------------------------|-------------|------------|-------|---|---|---|---|------|--|
| background suppression (BGS) | 50...300 mm | ● | RXS/ | 0 | 0 | - | 1 | A | |
| | 0,25...1 m | ● | RXL/ | 0 | 0 | - | 1 | A | |
| direct diffuse | 1 m | ● | RX6/ | 0 | 0 | - | 1 | A | |
| | 2 m | ● | RX8/ | 0 | 0 | - | 1 | A | |
| | 4,5 m | ● | RX8/ | 0 | 0 | - | 1 | A 37 | |
| reflex | 12 m | ● | RXC/ | 0 | 0 | - | 1 | A | |
| polarized | 6 m | ● | RXP/ | 0 | 0 | - | 1 | A | |
| receiver | 16/32 m | ● | RXR/ | 0 | 0 | - | 1 | A | |
| PNP / NPN logic | | | | | | | | 0 | |
| without temporizer | | | | | | | | 0 | |
| with temporizer | | | | | | | | T | |
| emitter ⁽¹⁾ | - | - | RXE/ | 0 | 0 | - | | | |
| 10...30 Vdc supply | | | | | | | | 1 | |
| 20...60 Vdc / 20...253 Vac supply | | | | | | | | 3 | |
| M12 plug exit | | | | | | | | A | |
| M12 plug exit with fixing slide | | | | | | | | B | |
| long range model | | | | | | | | 37 | |

⁽¹⁾ only multi voltage version

FC5 series
Objects detection without adjustment



241 product catalogue

CE UL

| output | model | | | | | | |
|-----------------|-------|---|----|----|----|----|--|
| M8- 3 pin | FC5R/ | L | - | 03 | 03 | 1F | |
| Light-ON models | L | | | | | | |
| Dark-ON models | D | | | | | | |
| PNP logic | P | | | | | | |
| NPN logic | N | | | | | | |
| 30 mm width | | | 03 | | | | |
| 60 mm width | | | 05 | | | | |
| 80 mm width | | | 08 | | | | |
| 120 mm width | | | 12 | | | | |
| 180 mm width | | | 18 | | | | |
| 40 mm depth | | | 03 | | | | |
| 60 mm depth | | | 06 | | | | |
| 124 mm depth | | | 12 | | | | |

FC6 series
Objects detection with adjustment



245 product catalogue

CE c UL US

| output | model | | | | | | |
|-----------------|-------|---|----|---|---|----|--------|
| M8 - 4 pin | FC6 | I | / | 0 | B | 05 | 06 -1F |
| IR emitter | I | | | | | | |
| LASER emitter | L | | | | | | |
| LO/DO output | | | 0 | | | | |
| NPN + PNP logic | | | B | | | | |
| 2 mm width | | | M2 | | | | |
| 5 mm width | | | M5 | | | | |
| 15 mm width | | | 01 | | | | |
| 30 mm width | | | 03 | | | | |
| 50 mm width | | | 05 | | | | |
| 80 mm width | | | 08 | | | | |
| 120 mm width | | | 12 | | | | |
| 42 mm depth | | | 04 | | | | |
| 59 mm depth | | | 06 | | | | |
| 95 mm depth | | | 10 | | | | |

FC7 series
Labels detections



251 product catalogue

CE c UL US

| output | model | | |
|---------------|--------|---|----------|
| M8 - 4 pin | FC7I/0 | P | -M304-0F |
| PNP logic | P | | |
| NPN logic | N | | |
| NPN/PNP logic | B | | |

Serie FC8
Ultrasonic forks for labels detection



541 product catalogue

CE c UL US

| output | model | | |
|---------------|--------|---|----------|
| M - 4 pin | FC8I/0 | P | -M307-1F |
| PNP logic | P | | |
| NPN logic | N | | |
| NPN/PNP logic | B | | |

AE1 - AM1 - AK1 - AT1 series
Inductive sensors standard body

381 389 405 product catalogue

CE C UL US Ex

| power supply | output | assembly | range | M8 | M12 | M18 | M30 | M8 short | M12 short | M18 short | M30 short | |
|----------------|----------|------------|--------|--------------|-------------------|--------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--|
| 10...30 Vcc | cable | shielded | 1,5 mm | AE1/ A P -1A | 2 mm AM1/ A P -1A | 5 mm AK1/ A P -1A | 10 mm AT1/ A P -1A | 1,5 mm AE6/ A P -1A | 2 mm AM6/ A P -1A | 5 mm AK6/ A P -1A | 10 mm AT6/ A P -1A | |
| | | unshielded | 2,5 mm | AE1/ A P -2A | 4 mm AM1/ A P -2A | 8 mm AK1/ A P -2A | 15 mm AT1/ A P -2A | 2,5 mm AE6/ A P -2A | 4 mm AM6/ A P -2A | 8 mm AK6/ A P -2A | 15 mm AT6/ A P -2A | |
| | | shielded | 2 mm | AE1/ A P -3A | 4 mm AM1/ A P -3A | 8 mm AK1/ A P -3A | 15 mm AT1/ A P -3A | 2 mm AE6/ A P -3A | 4 mm AM6/ A P -3A | 8 mm AK6/ A P -3A | 15 mm AT6/ A P -3A | |
| | | unshielded | 4 mm | AE1/ A P -4A | 8 mm AM1/ A P -4A | 12 mm AK1/ A P -4A | 20 mm AT1/ A P -4A | 4 mm AE6/ A P -4A | 8 mm AM6/ A P -4A | 12 mm AK6/ A P -4A | 20 mm AT6/ A P -4A | |
| | M12 plug | shielded | 1,5 mm | AE1/ A P -1H | 2 mm AM1/ A P -1H | 5 mm AK1/ A P -1H | 10 mm AT1/ A P -1H | | 2 mm AM6/ A P -1H | 5 mm AK6/ A P -1H | 10 mm AT6/ A P -1H | |
| | | unshielded | 2,5 mm | AE1/ A P -2H | 4 mm AM1/ A P -2H | 8 mm AK1/ A P -2H | 15 mm AT1/ A P -2H | | 4 mm AM6/ A P -2H | 8 mm AK6/ A P -2H | 15 mm AT6/ A P -2H | |
| | | shielded | 2 mm | AE1/ A P -3H | 4 mm AM1/ A P -3H | 8 mm AK1/ A P -3H | 15 mm AT1/ A P -3H | | 4 mm AM6/ A P -3H | 8 mm AK6/ A P -3H | 15 mm AT6/ A P -3H | |
| | | unshielded | 4 mm | AE1/ A P -4H | 8 mm AM1/ A P -4H | 12 mm AK1/ A P -4H | 20 mm AT1/ A P -4H | | 8 mm AM6/ A P -4H | 12 mm AK6/ A P -4H | 20 mm AT6/ A P -4H | |
| | M8 plug | shielded | 1,5 mm | AE1/ A P -1F | | | | | 1,5 mm AE6/ A P -1F | | | |
| | | unshielded | 2,5 mm | AE1/ A P -2F | | | | | 2,5 mm AE6/ A P -2F | | | |
| | | shielded | 2 mm | AE1/ A P -3F | | | | | 2 mm AE6/ A P -3F | | | |
| | | unshielded | 4 mm | AE1/ A P -4F | | | | | 4 mm AE6/ A P -4F | | | |
| PNP logic | | | | P | P | P | P | P | P | P | P | |
| NPN logic | | | | N | N | N | N | N | N | N | N | |
| 20...253 Vac | cable | shielded | | | 2 mm VM2 A 0 -1B | 5 mm VK2 A 0 -1B | 10 mm VT2/ A 0 -1B | | | | | |
| | | unshielded | | | 4 mm VM2 A 0 -2B | 8 mm VK2 A 0 -2B | 15 mm VT2/ A 0 -2B | | | | | |
| | plug | shielded | | | 2 mm VM2 A 0 -1H | 5 mm VK2 A 0 -1H | 10 mm VT2/ A 0 -1H | | | | | |
| | | unshielded | | | 4 mm VM2 A 0 -2H | 8 mm VK2 A 0 -2H | 15 mm VT2/ A 0 -2H | | | | | |
| NO output | | | | A | A | A | A | A | A | A | | |
| NC output | | | | C | C | C | C | C | C | C | | |
| NC + NC output | | | | | | | | B | | B | | |

AE6 - AM6 - AK6 - AT6 series
Inductive sensors short housing

389 405 product catalogue

CE C UL US Ex

UT1 - M30
Ultrasonic sensors

527 product catalogue

CE

| housing | range | output | model |
|--|----------------|-----------|----------------|
| plastic | 250...3.500 mm | M12 plug | UT1B/E P -0EUL |
| | | 2 m cable | UT1B/E P -0AUL |
| metallic | 350...3.500 mm | M12 plug | UT1B/E P -1EUL |
| | | 2 m cable | UT1B/E P -1AUL |
| PNP- NO/NC output (only plastic models) | | | P |
| NPN- NO/NC output (only plastic models) | | | N |
| 0 ... 10 V output (only plastic models) | | | 1 |
| 4 ... 20 mA output (only plastic models) | | | 2 |
| 1 x NPN - NO/NC + 1 x 4 ... 20 mA | | | 4 |
| 1 x PNP - NO/NC + 1 x 4 ... 20 mA | | | 6 |
| 1 x PNP - NO/NC + 1 x 0 ... 10 V | | | 7 |
| 1 x NPN - NO/NC + 1 x 0 ... 10 V | | | 9 |
| 2 x NPN - NP/NC - window + hysteresis | | | W |
| 2 x NPN - NO/NC - window + hysteresis | | | M |

DECOU[®] NPN/PNP-NO/NC
selectable
Proximity sensors

399 415 product catalogue

CE Ex

| power supply | output | assembly | range | M12 | M18 |
|-------------------------------|----------|------------|-------|-------------|------------------|
| 10...30 Vcc | cable | shielded | 2 mm | PM3 0 0 -1A | 5 mm PK3 0 0 -1A |
| | | unshielded | 4 mm | PM3 0 0 -2A | 8 mm PK3 0 0 -2A |
| | M12 plug | shielded | 2 mm | PM3 0 0 -1H | 5 mm PK3 0 0 -1H |
| | | unshielded | 4 mm | PM3 0 0 -2H | 8 mm PK3 0 0 -2H |
| NO/NC output state selectable | | | | 0 | |
| PNP/NPN logic selectable | | | | 0 | |

UK6 - M18 short housing
Ultrasonic sensors

519 product catalogue

IO-Link CE C UL US Ex

| housing | range | output | model | range | model | range | model |
|--------------------|----------|-----------|----------------|-------------|----------------|---------------|----------------|
| M18 | plastic | M12 plug | UK6A/H P -0EUL | 60...800 mm | UK6C/H P -0EUL | 80...1.200 mm | UK6D/H P -0EUL |
| | | 2 m cable | UK6A/H P -0AUL | | UK6C/H P -0AUL | | UK6D/H P -0AUL |
| | metallic | M12 plug | UK6A/H P -1EUL | 60...800 mm | UK6C/H P -1EUL | 80...1.200 mm | UK6D/H P -1EUL |
| | | 2 m cable | UK6A/H P -1AUL | | UK6C/H P -1AUL | | UK6D/H P -1AUL |
| output PNP- NO/NC | | | P | | P | | P |
| output NPN- NO/NC | | | N | | N | | N |
| output 0 ... 10 V | | | 1 | | 1 | | 1 |
| output 4 ... 20 mA | | | 2 | | 2 | | 2 |

UT2 series - M30 ultrasonic sensors with ø 38,8 mm large front

527 product catalogue

CE

| housing | range | output | model |
|---------------------------------------|----------------|-----------|----------------|
| plastic | 350...6.000 mm | M12 plug | UT2F/E P -0EUL |
| | | 2 m cable | UT2F/E P -0AUL |
| 1 x NPN - NO/NC + 1 x 4 ... 20 mA | | | 4 |
| 1 x PNP - NO/NC + 1 x 4 ... 20 mA | | | 6 |
| 1 x PNP - NO/NC + 1 x 0 ... 10 V | | | 7 |
| 1 x NPN NO/NC + 1 x 0 ... 10 V | | | 9 |
| 2 x PNP - NO/NC - window + hysteresis | | | W |
| 2 x NPN - NO/NC - window + hysteresis | | | M |

C18 - C30 - CQ55 series
Capacitive sensors

477 product catalogue

| power supply | housing | assembly | range | M18 | M30 | assembly | range | 15 x 35 x 55 mm |
|-------------------------------|----------|------------|-------|----------------|---------------------|---------------------|-------|-----------------|
| 10 ... 30 Vcc | plastic | shielded | 8 mm | C18P/ B P -1 A | 16 mm C30P/ B P -1A | shielded unshielded | 25 mm | CQ55/ B P -3 A |
| | | unshielded | 12 mm | C18P/ B P -2 A | 25 mm C30P/ B P -2A | | | |
| | metallic | - | - | | 16 mm C30M/ B P -1A | | | |
| | | - | - | | 25 mm C30M/ B P -2A | | | |
| output completamente NO+NC | | | | B | | | | |
| PNP logic | | | | P | | | | P |
| NPN logic | | | | N | | | | N |
| 20 ... 250 Vac | plastic | shielded | 8 mm | C18P/ A 0 -1 A | 16 mm C30P/ 0 0 -1A | | | |
| | | unshielded | 12 mm | C18P/ A 0 -2 A | 25 mm C30P/ 0 0 -2A | | | |
| | metallic | - | - | | 16 mm C30M/ 0 0 -1A | | | |
| | | - | - | | 25 mm C30M/ 0 0 -2A | | | |
| NO output state | | | | A | | | | A |
| NC output state | | | | C | | | | C |
| NO/NC output state selectable | | | | | 0 | | | |
| cable exit 2 m | | | | A | | | | A |
| M12 plug exit | | | | E | | | | E |

UK1 - M18 housing standard
Ultrasonic sensors

509 product catalogue

IO-Link CE C UL US

| housing | range | output | model | range | model | range | model | range | model |
|-------------------------------------|---------|----------|-----------------|--------------|-----------------|----------------|-----------------|----------------|-----------------|
| M18 | plastic | M12 plug | UK1A/G P -0E SY | 100...900 mm | UK1C/G P -0E SY | 150...1.600 mm | UK1D/G P -0E SY | 200...2.200 mm | UK1F/G P -0E SY |
| | | | UK1A/G P -1E SY | | UK1C/G P -1E SY | | UK1D/G P -1E SY | | UK1F/G P -1E SY |
| 1 x output analogica 0...10V | | | 1 | | P | | P | | |
| 1 x output analogica 4...20mA | | | 2 | | N | | N | | |
| 1 x output digitale NPN NO/NC | | | N | | 1 | | 1 | | |
| 1 x output digitale PNP NO/NC | | | P | | 2 | | 2 | | |
| 2 x PNP - NO/NC - finestra isteresi | | | W | | 4 | | 4 | | |
| 2 x NPN - NO/NC - finestra isteresi | | | M | | 6 | | 6 | | |
| with synchronisation function | | | SY | | 7 SY | | 7 SY | | |
| without synchronisation function | | | | | 9 | | 9 | | |

BX10 series - 10 optics (KIT Em. + Rec.)

553 product catalogue

CE C UL US

| controlled area | resolution | model | |
|-------------------------|------------------|--------|------------|
| 90 mm | Ø 5 mm...Ø 15 mm | BX10SR | 0 A H B 6X |
| emitter | | | 0 |
| NO receiver | | | A |
| NC receiver | | | C |
| emitter | | | 0 |
| NPN+PNP receiver | | | D |
| M12 plug exit | | | H |
| sensing range 0,3...2 m | | | |
| sensing range 0,3...4 m | | | 6X |
| sensing range 0,3...6 m | | | 6A |

Standard and cCSAus certified connectors



783 product catalogue
CE

| type | pins | LED | model | | | |
|-------------------------------|--------|-----|-----------|-----|---|---|
| M8 | 3 | - | CD08/0A- | 020 | A | 1 |
| | 4 | - | CD08/0B- | 020 | A | 1 |
| M 12 | 3 - NO | - | CD12M/AA- | 020 | A | 1 |
| | 4 | - | CD12M/0B- | 020 | A | 1 |
| 2 m lenght | | | 020 | | | |
| 5 m lenght | | | 050 | | | |
| 10 m lenght | | | 100 | | | |
| 15 m lenght ⁽¹⁾⁽²⁾ | | | 150 | | | |
| 20 m lenght ⁽¹⁾⁽²⁾ | | | 200 | | | |
| axial plug | | | A | | | |
| plug a 90° | | | C | | | |
| PVC cable | | | 1 | | | |
| PUR cable | | | 5 | | | |
| standard plugs | | | - | | | |
| cCSAus certified plugs | | | US | | | |

⁽¹⁾ not available for US type ⁽²⁾ minimum quantity to purchase

IP69K connectors



783 product catalogue
CE

| type | pins | LED | model | | | |
|-------------------|------|-----|-----------|-----|---|---|
| M12 IP69K | 4 | - | CD12F/0B- | 050 | A | 1 |
| M12 IP69K con LED | 4 | - | CD12F/LB- | 050 | A | 1 |
| 5 m lenght | | | 050 | | | |
| axial plug | | | A | | | |
| radial plug | | | C | | | |
| PVC cable | | | 1 | | | |

LED connectors



783 product catalogue
CE

| type | pins | LED | model | | | |
|--------------------------|-----------------|--------|-----------|-----|---|---|
| M12 PVC | 3 - NO - NPN | 2 | CD12M/NA- | 020 | C | 1 |
| | 3 - NO - PNP | 2 | CD12M/PA- | 020 | C | 1 |
| | 4 - NO/NC - PNP | 2 | CD12M/VB- | 020 | C | 1 |
| | 4 - DECOUT | BI-LED | CD12M/DB- | 020 | C | 1 |
| M PUR | 4 | 3 | CD12M/LB- | 050 | C | 5 |
| 2 m lenght | | | 020 | | | |
| 5 m lenght | | | 050 | | | |
| 10 m lenght | | | 100 | | | |
| 90° plug | | | C | | | |
| PVC cable | | | 1 | | | |
| PUR cable ⁽¹⁾ | | | 5 | | | |

⁽¹⁾ only 5 and 10 m lenght

Not cabled M8 connectors



783 product catalogue
CE

| dimension | LED | model | | | | | | |
|--------------|-----|-------|---|-----|---|---|----|---|
| M8 | - | C | V | 08/ | 1 | B | 00 | A |
| male plug | | V | | | | | | |
| female plug | | L | | | | | | |
| spring block | | | | 1 | | | | |
| screw block | | | | 0 | | | | |
| 3 pins | | | | | | A | | |
| 4 pins | | | | | | B | | |
| axial model | | | | | | A | | |

Not cabled M12 connectors



783 product catalogue
CE

| dimension | LED | model | | | | | | |
|-------------------------|-----|-------|---|-----|---|---|-----|---|
| M12 | - | C | V | 12/ | 0 | B | -00 | A |
| male plug | | V | | | | | | |
| female plug | | L | | | | | | |
| spring block | | | | 1 | | | | |
| screw block | | | | 0 | | | | |
| 4 pins | | | | | | B | | |
| 5 pins | | | | | | H | | |
| axial model | | | | | | A | | |
| 90° model (male 4 pins) | | | | | | B | | |
| 90° model | | | | | | C | | |

LS safety light curtains connectors



783 product catalogue
CE

| | | model | | | |
|----------|----------------------------|----------|-----|---|---|
| | | CD12M/0H | 050 | A | 5 |
| emitter | 5 m lenght | 050 | | | |
| | 10 m lenght | 100 | | | |
| | 15 m lenght ⁽¹⁾ | 150 | | | |
| | axial model | | | A | |
| | 90° model | | | C | |
| | PUR cable | | | 5 | |
| | | CD12M/0E | 050 | A | 1 |
| receiver | 5 m lenght | 050 | | | |
| | 10 m lenght | 100 | | | |
| | 15 m lenght ⁽¹⁾ | 150 | | | |
| | axial model | | | A | |
| | model a 90° | | | C | |
| | PVC cable | | | 1 | |

⁽¹⁾ only axial models

Relays modules  783 product catalogue CE

| | model |
|--|--------|
| relay module | SB300 |
| relay module with restart button | SB400 |
| relay module with restart button and muting function | SB400M |


Safety light curtains deviating mirrors  758 product catalogue CE

| | model |
|-------------------------------------|-------|
| SL | 015 |
| for 160 mm protected height grids | 015 |
| for 310 mm protected height grids | 030 |
| for 460 mm protected height grids | 045 |
| for 610 mm protected height grids | 060 |
| for 760 mm protected height grids | 075 |
| for 910 mm protected height grids | 090 |
| for 1,060 mm protected height grids | 105 |
| for 1,210 mm protected height grids | 120 |
| for 1,360 mm protected height grids | 135 |
| for 1,510 mm protected height grids | 150 |

Cylindrical sensors mounting bracket  758 product catalogue CE

| | model | | | |
|---|-------|----|---|----|
| | ST | 08 | - | A |
| support for M8 sensors | | 08 | | |
| support for M12 sensors | | 12 | | |
| support for M18 sensors | | 18 | | |
| support for M30 sensors | | 30 | | |
| axial | | | | A |
| 90° | | | | C |
| metal | | | | - |
| AISI316L stainless steel ⁽¹⁾ | | | | 7W |

⁽¹⁾ only for M12 and M18 sensors

M12 for VAC sensors  783 product catalogue CE

| type | pins | LED | model | | | |
|--------|-------------|-----|-----------|-----|---|---|
| M12 AC | 2 + PE | - | CD12M/AC- | 050 | A | 5 |
| | 5 m length | | | 050 | | |
| | axial plug | | | | A | |
| | radial plug | | | | C | |
| | PUR cable | | | | | 5 |

Reflectors  773 product catalogue CE

| | range | dimension | model |
|----------------|-----------|----------------------|-----------|
| adhesive paper | RL 100 | definite dall'utente | - |
| | RL 100D | definite dall'utente | - |
| | RL 100A4 | 200 x 300 mm | - |
| | RL 100C4 | 50 x 300 mm | - |
| rounds | RL 100DQ1 | 100 x 100 mm | - |
| | RL 102 | Ø 25,2 mm | - |
| | RL 103 | Ø 34,5 mm | - |
| | RL 104 | Ø 46 mm | - |
| | RL 109G | Ø 83 mm | - |
| | RL 110 | Ø 84 mm | - |
| | RL 105G | 38 x 95 mm | - |
| | RL 106G | 42 x 182 mm | - |
| | RL 107 | 100 x 100 mm | - |
| | RL 111G | 23,5 x 47,5 mm | - |
| | RL 112G | 19 x 73 mm | - |
| | RL 113G | 51 x 61 mm | - |
| | RL116 | 40 x 60 mm | - |
| | RL 130 | 52 x 69 mm | - |
| | RL 131 | 23 x 43 | - |
| | RL 133 | 12,5 x 54 mm | - |
| cubics | RL 201 | 60 x 82 mm | for LASER |
| | RL 202 | 51 x 60,7 mm | for LASER |
| | RL 203 | 19,2 x 60 mm | for LASER |
| | RL 204 | 20 x 32 mm | for LASER |

Type 2 or type 4 access control  615 629 product catalogue CE

| | model | | | | | | | |
|-------------------------------------|-------|---|-----|----|---|-----|---|---|
| | LS | 2 | ER/ | OB | - | 050 | - | - |
| Type 2 grid | | 2 | | | | | | |
| Type 4 grid | | 4 | | | | | | |
| 2 beams models, 500 mm step | | | | 0A | | 050 | | |
| 3 beams models, 400 mm step | | | | 0B | | 080 | | |
| 4 beams models, 400 mm step | | | | 0C | | 090 | | |
| standard model | | | | | | | | - |
| base model (only automatic restart) | | | | | | | | B |
| model standard | | | | | | | | - |
| extended range model ⁽¹⁾ | | | | | | | | L |

⁽¹⁾ only type 4 models

Type 2 or type 4 finger / hand protection  615 629 product catalogue CE

| | model | | | | | | | |
|-------------------------------------|-------|---|-----|----|---|-----|---|---|
| | LS | 2 | ER/ | 30 | - | 015 | - | - |
| type 2 grid | | 2 | | | | | | |
| type 4 grid | | 4 | | | | | | |
| 14 mm resolution | | | | 14 | | | | |
| 30 mm resolution | | | | 30 | | | | |
| 160 mm protected height area | | | | | | 015 | | |
| 310 mm protected height area | | | | | | 030 | | |
| 460 mm protected height area | | | | | | 045 | | |
| 610 mm protected height area | | | | | | 060 | | |
| 760 mm protected height area | | | | | | 075 | | |
| 910 mm protected height area | | | | | | 090 | | |
| 1,060 mm protected height area | | | | | | 105 | | |
| 1,210 mm protected height area | | | | | | 120 | | |
| 1,360 mm protected height area | | | | | | 135 | | |
| 1,510 mm protected height area | | | | | | 150 | | |
| standard model | | | | | | | | - |
| base model (only automatic restart) | | | | | | | | B |
| standard model | | | | | | | | - |
| extended range model ⁽¹⁾ | | | | | | | | L |

⁽¹⁾ only type 4 models