

| Standard-models | | 2 mm switching distance | | | | 4 mm switching distance | | | |
|-----------------|-----|-----------------------------|--------------|---------------------------|--------------|----------------------------------|--------------|---------------------------|--------------|
| M12 | | | | | | | | | |
| | | flush mounted metal design | | | | non-flush mounted plastic design | | | |
| | | 2 m cable, length = 61.5 mm | | Plug M8, length = 61.8 mm | | 2 m cable, length = 61 mm | | Plug M8, length = 61.3 mm | |
| | | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. |
| DC | NPN | 650.7303.001 | 650.7103.001 | 650.7303.004 | 650.7103.004 | 650.7319.001 | 650.7119.001 | 650.7319.004 | 650.7119.004 |
| | PNP | 650.7903.001 | 650.7703.001 | 650.7903.004 | 650.7703.004 | 650.7919.001 | 650.7719.001 | 650.7919.004 | 650.7719.004 |

| Standard-models | | 5 mm switching distance | | | | 8 mm switching distance | | | |
|-----------------|-----|-----------------------------|--------------|----------------------------|--------------|----------------------------------|--------------|--|--------------|
| M18 | | | | | | | | | |
| | | flush mounted metal design | | | | non-flush mounted plastic design | | | |
| | | 2 m cable, length = 81.7 mm | | Plug S12, length = 81.7 mm | | 2 m cable, length = 81 mm | | Plug M8 (DC) Plug S12 (AC) length = 81 mm | |
| | | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. |
| DC | NPN | 650.7305.001 | 650.7105.001 | 650.7305.004 | 650.7105.004 | 650.7321.723 | 650.7121.722 | 650.7321.002 | 650.7121.002 |
| | PNP | 650.7905.001 | 650.7705.001 | 650.7905.004 | 650.7705.004 | 650.7921.724 | 650.7721.001 | 650.7921.002 | 650.7721.002 |
| AC | | | | | 650.8521.001 | 650.8421.001 | 650.8521.004 | 650.8421.004 | |

| Standard-models | | 10 mm switching distance | | | | 20 mm switching distance | | | |
|-----------------|-----|----------------------------|--------------|--------------------------|--------------|----------------------------------|--------------|--------------------------|--------------|
| M30 | | | | | | | | | |
| | | flush mounted metal design | | | | non-flush mounted plastic design | | | |
| | | 2 m cable, length = 82 mm | | Plug S12, length = 82 mm | | 2 m cable, length = 81 mm | | Plug S12, length = 81 mm | |
| | | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. | N.O. | N.C. |
| DC | NPN | 650.7307.001 | 650.7107.001 | 650.7307.004 | 650.7107.004 | 650.7323.001 | 650.7123.001 | 650.7323.004 | 650.7123.004 |
| | PNP | 650.7907.001 | 650.7707.001 | 650.7907.004 | 650.7707.004 | 650.7923.727 | 650.7723.001 | 650.7923.004 | 650.7723.004 |
| AC | | | | | 650.8523.001 | 650.8423.001 | 650.8523.004 | 650.8423.004 | |

| Standard-models | | 15 mm switching distance | | | | 30 mm switching distance | | | |
|--------------------|-----------------------|----------------------------|---------------|--------------------------|---------------|----------------------------------|---------------|--------------------------|---------------|
| M32 | | | | | | | | | |
| | | flush mounted metal design | | | | non-flush mounted plastic design | | | |
| | | 2 m cable, length = 70 mm | | Plug S12, length = 70 mm | | 2 m cable, length = 70 mm | | Plug S12, length = 70 mm | |
| | | N.O./N.C. prog. | Complementary | N.O./N.C. prog. | Complementary | N.O./N.C. prog. | Complementary | N.O./N.C. prog. | Complementary |
| DC | NPN/ PNP progr. | 650.7013.011 | 650.7013.012 | 650.7013.015 | 650.7013.016 | 650.7013.001 | 650.7013.002 | 650.7013.004 | 650.7013.005 |
| AC Relais Timer | | | | | 650.8613.001 | | | | |

| Standard-models | 15 mm switching distance | | | | 20 mm switching distance | | | | 30 mm switching distance | | | | |
|-----------------|---------------------------|----------------------------------|-------------------------|--------------|-----------------------------|----------------------------|----------------------------|--------------|---------------------------|----------------------------------|--------------------------|--|--|
| | Ø 20 Ø 34 | | | | | | | | | | | | |
| | | non-flush mounted plastic design | | | | flush mounted metal design | | | | non flush mounted plastic design | | | |
| | 2 m cable, length = 81 mm | | Plug M8, length = 81 mm | | 2 m cable, length = 80.5 mm | | Plug S12, length = 80.5 mm | | 2 m cable, length = 81 mm | | Plug S12, length = 81 mm | | |
| N.O. | N.C. | N.O. | N.C. | N.O. | | N.O. | | N.O. | N.F. | N.O. | N.F. | | |
| DC | NPN | 650.7310.002 | 650.7110.001 | 650.7310.004 | | | | 650.7315.001 | 650.7115.001 | 650.7315.004 | 650.7115.004 | | |
| | PNP | 650.7910.001 | 650.7710.001 | 650.7910.004 | 650.7710.004 | 650.7915.005 | 650.7915.006 | 650.7915.001 | 650.7715.154 | 650.7915.004 | 650.7715.004 | | |
| AC | | 650.8510.001 | 650.8410.001 | | | | | 650.8515.001 | 650.8415.001 | 650.8515.005 | 650.8415.004 | | |

| Standard-models | 8 mm switching distance | | 10 mm switching distance | | 15 mm sw. dist. | 30 mm sw. dist. | |
|-----------------|--|----------------------------|--------------------------|------------------------------|------------------|------------------------------|--------------------------|
| | E50 (50 x 25 x 10) E68 (68 x 30 x 15) N44 (40 x 40 x 120) | | | | | | |
| | | flush mounted metal design | | flush mounted plastic design | | flush mounted plastic design | non-flush plastic design |
| | 2 m cable | | 2 m cable | | Terminal chamber | | |
| N.O. | | N.O. | | N.O./N.C. prog. | N.O./N.C. prog. | | |
| DC | NPN | 650.7390.001 | | 650.7356.001 | | 650.7054.001 | 650.7054.002 |
| | PNP | 650.7990.001 | | 650.7956.001 | | | |

Technical data

| | | DC-data | | | | | | | | | |
|----------------------------|----------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | M12 | M18 | M30 | M32 | Ø 20 | Ø 34 | E50 | E68 | N44 | |
| Operating voltage | U _s | 10 - 36 V | 10 - 60 V | 10 - 60 V | 10 - 60 V | 10 - 60 V | 10 - 36 V | 10 - 36 V | 10 - 36 V | 10 - 60 V | 10 - 60 V |
| Operating current | I _s | ≤ 200 mA | ≤ 200 mA | ≤ 400 mA | ≤ 400 mA | ≤ 400 mA | ≤ 400 mA | ≤ 200 mA | ≤ 200 mA | ≤ 400 mA | ≤ 400 mA |
| Switch hysteresis | H | 20% of rated switching distance | | | | | | | | | |
| Repeatability | R | ≤ 10% | | | | | | | | | |
| Switching frequency | F | ≈ 25 Hz | | | | | | | | | |
| Output | | Sustained short circuit and overload protection | | | | | | | | | |
| Reverse voltage protection | | yes | | | | | | | | | |

| | | AC-data | | | | | | |
|----------------------------|----------------|---|-----|-----|------|------|-----|--|
| | | M18 | M30 | M32 | Ø 20 | Ø 34 | N44 | |
| Operating voltage | U _s | 20 - 250 V | | | | | | |
| Operating current | I _s | ≤ 300 mA (M32 version with relay output 8 A) | | | | | | |
| Switch hysteresis | H | 20% rated switching distance | | | | | | |
| Repeatability | R | ≤ 10% | | | | | | |
| Switching frequency | F | ≈ 15 Hz | | | | | | |
| Output | | (M32 version with adjustable off-delay 3-600 s) | | | | | | |
| Reverse voltage protection | | yes | | | | | | |

| | | general technical data | | | | | | | | | |
|--|----------------|--|--------|----------|----------|---------|----------|--------|---------|----------|--|
| | | M12 | M18 | M30 | M32 | Ø 20 | Ø 34 | E50 | E68 | N44 | |
| Rated switching distance | | | | | | | | | | | |
| (flush mounted/non-flush mounted) | s _n | 2/4 mm | 5/8 mm | 10/20 mm | 15/30 mm | -/15 mm | 20/30 mm | 8/- mm | 10/- mm | 15/30 mm | |
| Adjustable switching distance | | yes with potentiometer (apart from M12 plug version) | | | | | | | | | |
| Function-/operating voltage indication | | ●/- | ●/● | ●/● | ●/● | ●/● | ●/● | ●/- | ●/- | ●/● | |
| Operating temperature | | -25°C...+70°C | | | | | | | | | |
| Ingress protection | | IP 65/67 according to CEI 529/EN 60529 | | | | | | | | | |