

DUELCO - NST-2009D SAFETY RELAY WITH TIMED OUTPUTS

42080021
NST2009D 24VAC/DC ESTP RLY+TIM

- Safety Category 4 (PLe)
- 2 NO safety outputs + 1 NC signal output
- 2 NO delayed outputs (0 - 600 sec)
- Status-/fault indication via LEDs
- Short circuit monitoring



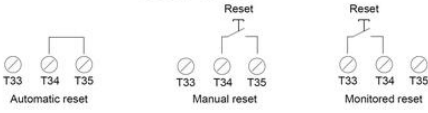
PRODUCT DESCRIPTION

Flexible safety relay with time delayed outputs for the highest safety category.

SPECIFICATIONS

| | |
|------------------------|-----------|
| Supply voltage | 24V AC/DC |
| Tolerance | ±10% |
| Safety outputs NO | 4 |
| Signal output NC | 1 |
| IP Class Housing | IP40 |
| IP Class Connection | IP20 |
| Temperature range from | -25 °C |
| Temperature range to | 50 °C |
| Safety category | 4 |
| PL | e |
| Approvals | CE, cULus |

RESET TYPES

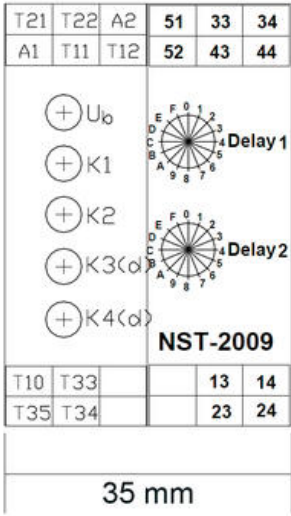


TIME DELAY TABLE - 0 - 600 SEC.

| | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| 0.05 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | |
| 0.25 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 1.5 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | |
| 15 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 360 | 420 | 480 | 540 | 600 | |

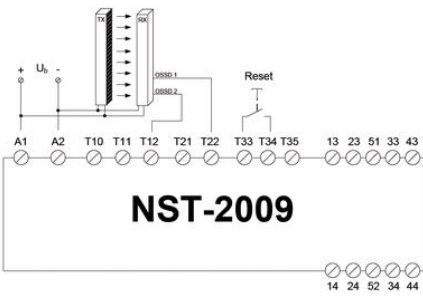
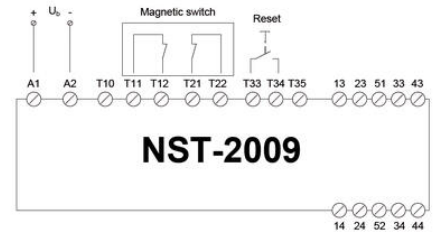
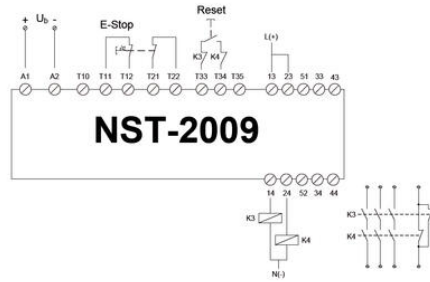
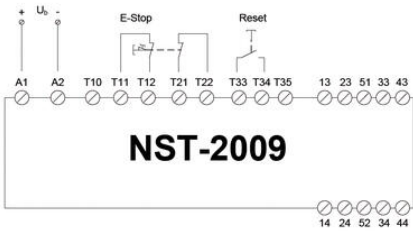
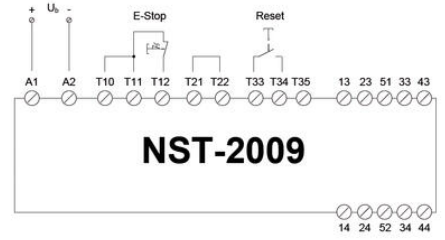
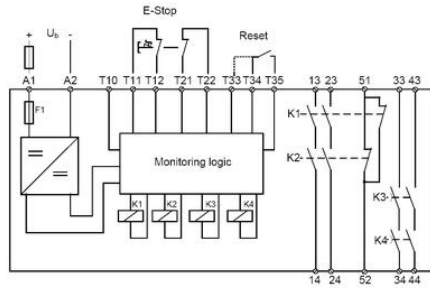
STATUS TABLE, LED'S

| LED U0 | LED X1 | LED X2 | LED X3 | LED X4 | Interpretation / Possible Fault (depends on which connection example is being used) |
|--------|----------|----------|----------|----------|---|
| ON | OFF | OFF | OFF | OFF | Supply OK |
| OFF | OFF | OFF | OFF | OFF | Supply not connected or missing / bad connection |
| ON | Blinking | Blinking | Blinking | Blinking | Monitoring circuit has not detected any faults and the relay is ready for reset |
| ON | ON | ON | ON | ON | Relay activated |
| ON | OFF | OFF | ON | ON | Emergency stop activated, time delay still active |

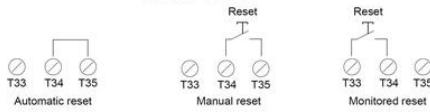


35 mm

Depth 114,50mm



RESET TYPES

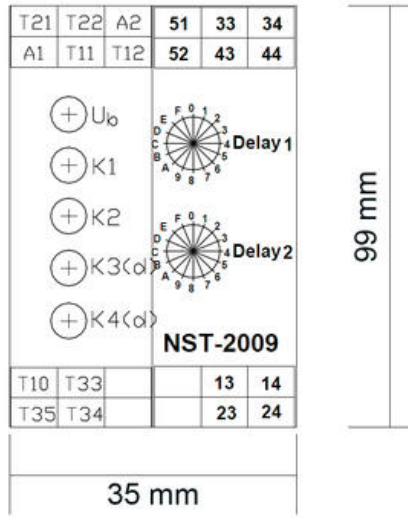


TIME DELAY TABLE - 0 - 600 SEC.

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99 mm

Depth 114,50mm

