

TS958 and TS970

Digital Control Systems for Industrial Doors

- Limit switch setting from ground level
- Programmable Door Maintenance Indicator
- Plug connections between control panel and drive unit
- Load monitoring in the open direction
- Digital display of door status and/or fault diagnostic
- Operations cycle counter (non re-settable)
- Certified to BS EN 12453



Digital Features

For use with the Guthrie Douglas range of drives incorporating digital limits (DES) the TS958 and TS970 allow easy and rapid setting of limit switch positions and door parameters from ground level. With the introduction of digital limits both the TS958 and TS970 have the facility to monitor the load on the door in the open direction. This feature on certain designs of door prevents objects or persons being accidentally lifted as well as preventing people intentionally riding on a door when opening.

As with the other Guthrie Douglas controls the TS958 and TS970 now include as standard a programmable door maintenance indicator. This allows the installer to set a maintenance interval to suit the door and its application of between 1000 to 99000 operations on completion of which the control will tell the customer that the door needs servicing.

Simplifying on-site installation

Plug connectors are provided in the drive and control for an inter-connecting cable and for a spiral cable between the control and door for connection of slack wire switches, pass door switch and in the case of the TS970 safety edge.

Unnecessary callbacks are minimised as the customer can now read back the doors status using the digital display, which is visible through the new enclosure lid. If a return visit is required then door adjustments can be carried out without accessing the drive unit therefore negating the need for expensive access equipment. In the case of the TS970 some door adjustments can be carried out automatically for instance re-adjustment of the close limit to allow for cable stretch and/or for changes in finished floor level.

Enclosure Enhancements

The new purpose built enclosure with a fully protected printed-circuit board meets the IP65 class for dust and moisture protection. The new enclosure

has pre-drilled entries and flexible feet for mounting on uneven surfaces and incorporates open, close and stop buttons with the provision for installing a key switch and/or latching stop button if required.

Meeting the Standards

The TS958 and TS970 meet the requirements of the BS EN 12453 and the introduction of a programmable maintenance indicator only further enhances the safety regime for the user. According to whether the intended users are trained or not and whether the door is in a public area or not, determines the degree of safety required.

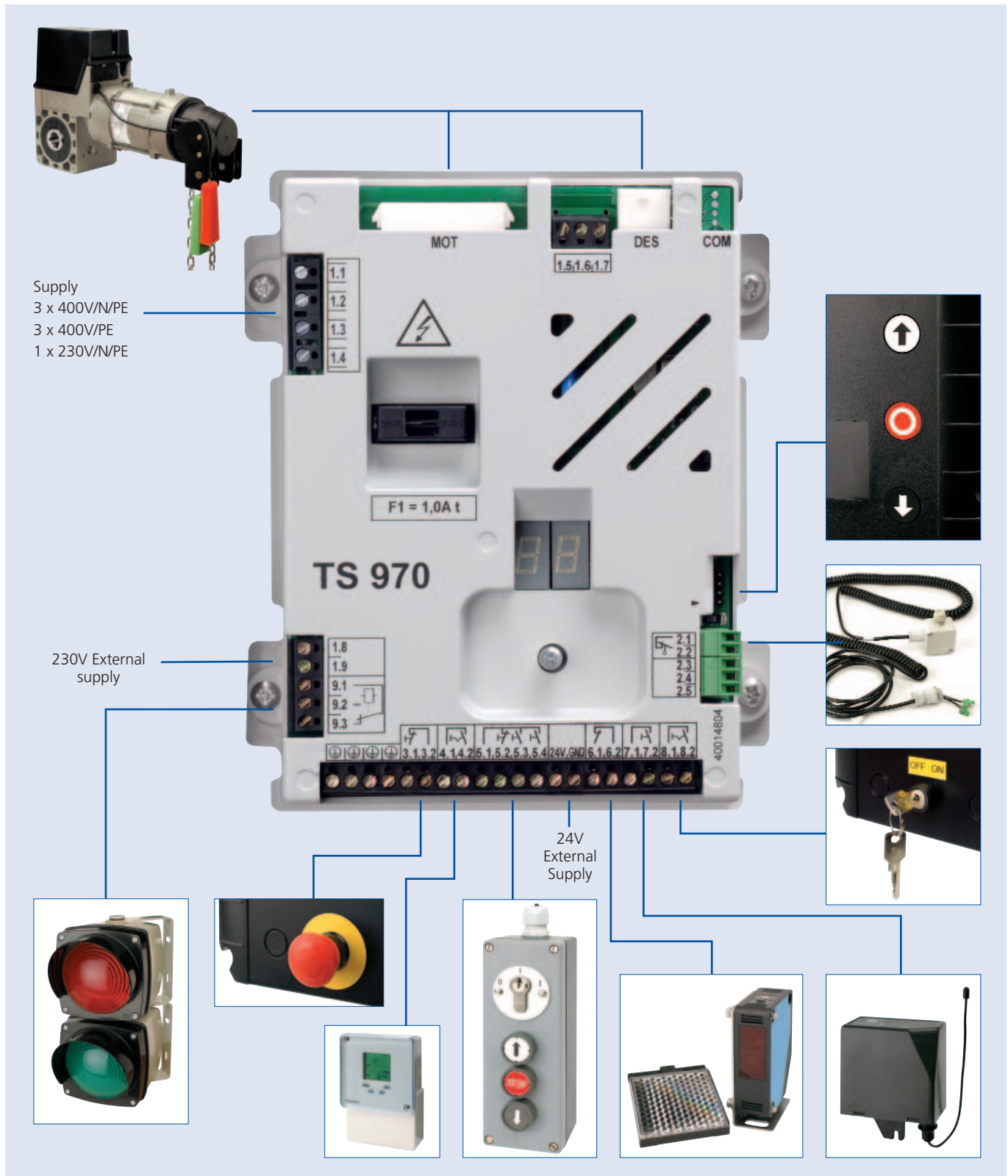
Door User	Control Unit	Obligatory Accessories	Function
Trained user only Not in a public area	TS958 In sight of door	N/A	Impulse Open Hold to run Close
Trained user In a public area	TS958 In sight of door	Key Switch on/off	Impulse Open Hold to run Close
Trained user In a public area	TS970 Out of sight of door	Safety Edge	Impulse Open Impulse Closed
General Public	TS970 In/out of sight of door	Safety Edge and Photo Beam	Impulse Open Impulse Closed

Note: Doors that can lift a person require additional safety devices

Control Panel TS970

The TS970 control incorporates all the features of the TS958, plus:

- Programmable Door Maintenance Indicator with three response modes including the option for the service due function to be overridden the once to allow a further 500 cycles
- Automatic adjustment for changes in floor level and/or cable stretch
- 1 to 240 second variable timed closing
- Automatic recognition of the safety edge type (contact, pressure switch or Fraba optical type)
- Function to prevent unintentional activation of the photo beam, for example by the safety edge spiral cable allowing the photo beam to be mounted as close to the door or guide as possible
- Last 2 faults memorised
- Dynamic run time monitoring (drive stalled or overloaded) switching off at 7-second discrepancy
- Selectable Part open facility
- Option for a built in loop detector



Accessories for use with Control Panels



GE23029/030
Protected cable (3m)

GE23029/050
Protected cable (5m)

GE23029/070
Protected cable (7m)

GE23029/090
Protected cable (9m)

GE23029/130
Protected cable (13m)



KSR4P
Fraba safety edge kit (<6m)

KSR4P/10
Fraba safety edge kit (<10m)

GF10045
Edge profile, roller shutters

GF10050
Bump stop for roller shutters

GF10085
Edge profile, sectional doors

GF10095
Bump stop for sectional doors



GF40594
Mounting rail

GF/AC2001
Draw wire (7m)



PES135/6*
Polarised reflex photo-beam
(<6m range)

PES135/9
Polarised reflex photo-beam
(<9m range)

PES132/20
Through-beam sender and
receiver (<20m range)



PA/RA2E*
Receiver 433MHz, 2 Channel
rolling code

PA/TL2E*
Transmitter 2 Channel
433MHz

PA/TL4E
Transmitter 4 Channel
433MHz

PA/TP2E*
Key-fob transmitter 2 Channel
433MHz



CA60262*
Vehicle mounted transmitter,
1 Channel 433MHz

CA60298
Vehicle mounted transmitter,
2 Channel 433MHz



GE46390*
Pull switch, for wall or ceiling
mounting with 2.5m chain



GE34615*
Panel mounted latching stop
button



GE34616*
Panel mounted key switch

JAPZ4-IR
Remote Key Switch with 3
push buttons



IFALCONXL
Industrial motion sensor
(3.5m high)

IFALCON*
Industrial motion sensor
(<7m high)

IFALCON/REM*
Remote control setting



PA/EASYMINI
Proximity Card Reader

PA/MBAD2*
Pack of 10 cards to suit
PA/EASYMINI



GE301955*
Traffic indicator assembly, red
and green

*ILLUSTRATED

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