Swing door drive mechanism with fire protection rating

ETS 64-R

Control booklet

Original



Com. no.		Pos.	 Construction year	
Operator			 	
Operating pla	ace			



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1 GENERAL REMARKS

The following basic documents are associated with this installation:

Mounting and operating instructions
 Operator manual
 Control booklet
 O548-991/62
 O548-991/72
 onto the installation by the operator onto the installation

1.1 Target group

All the activities described in the control booklet may only be carried out by competent specialists!

1.2 Competent specialists

Competent specialists are persons who, based on their professional training and experience, have sufficient knowledge in the field of powered windows, doors and gates. They are sufficiently familiar with the relevant federal regulations for work protection and accident prevention, with the guidelines and generally recognized rules applicable for this field of technology which enables them to evaluate if powered windows, doors and gates can be safely operated.

Only the trained experts of the manufacturer or the supplier are counted among these persons.

1.3 Safety regulations

The design and manufacture of the ETS 64-R is based on the latest state of the art and fully answers the safety requirements to be met by door systems powered by an external energy source.

A professional installation as well as regular servicing (maintenance/checking) are decisive factors with regard to a safe operation of the automatic door. To guarantee the required safety level, only sufficiently qualified and expert staff members respectively duly authorized specialized companies are commissioned to install and service the automatic door systems (maintenance/checking).

In order to guarantee the safety of the users at all times, the installation must be checked with regard to its safe condition before the first commissioning and during normal operation, **at least once a year**, by a competent specialist. The correct service (maintenance/checking) must be confirmed by entering the date and signature into the control booklet.



1.4 Where to keep the control booklet

The control booklet has to be kept close to the installation, together with the operating instructions!

1.5 Adresses

Distribution agent/ After-sales service	

Distribution

ECO Schulte GmbH & Co. KG Iserlohner Landstrasse 89 D-58706 Menden

Tel. +49 23 73 / 92 76-0 Fax +49 23 73 / 92 76-40 www.eco-schulte.de

DATA OF THE INSTALLATION 2

2.1 Wing

Quantity Material Clearance width mm Clearance height mm Weight/wing kg

2.2 **Drive unit**

Drive mechanism Power transmission □ Normal rods

Dimensions drive mechanism Height 95 mm, Width 690 mm

Weight drive mechanism 10,5 kg Ambient temperature -15...+50 °C

May only be used in dry rooms max. relative humidity 85 %

Protection type Operating voltage

Power consumption drive mechanism

Motor power rating

Power supply external comsumer

Torque output shaft

Distance door hinge - Output shaft

Lintel depth

Door opening angle Weight of door leaf Width of door leaf Opening speed Closing speed

Range of the accelerating function (foreceful

closing) (without mains power)

Motor damping (without mains power) within the range of the

accelerationg function (forceful closing)

Hold-open time

Hold-open time Night

Standard

☐ Sliding rods

Depth 120 mm

IP 40 (IP 42*)

230 VAC (+10/-15 %), 50 Hz, 10/13 A

max. 560 W 100 W

24 VDC (±10 %), 2 A 80 Nm permanent 240 Nm max. 280 mm

□ normal rods max. 240 mm ☐ sliding rods -30/+30 mm DIBt

☐ sliding rods pl. -30/+70 (+190) mm ☐ sliding rods ps. -30/+60 (+190) mm

max. 105° max. 250 kg

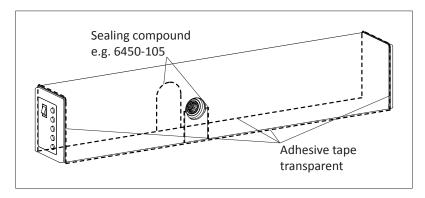
EN 3...6 (851...1'400 mm) 2,4...20 s adjustable (max. 40°/s) 2,4...20 s adjustable (max. 40°/s)

5...15° stepless adjustable (mechanical)

stepless adjustable (adjusting trimmer)

0...60 s 0...180 s

* For obtaining the protection type IP 42, the drive mechanism covering must be sealed all around!





2.3 Control / Options

D-BEDIX		Detector
KOMBI-D-BEDIX		Radar
Security detector side of door hinge (stop)		Push-button
Security detector opposite side of door hinge (reverse)		Key-operated pivoting switch
Emergency stop button		Remote radio control
 Fire detector		
Manual triggering button "Close the door"		
Control button "Close the door/Restart"		
ETS 64-R SRI Integrated closing sequence regulator		
ETS 64-R IRM Integrated smode detector		
Delayed door leaf with mecanical door closer EN 1154 by c	usto	omer

2.4 Settings



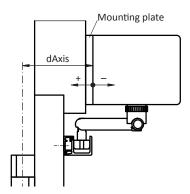
Warning:

Is the protection of the danger areas (shearing, squeezing, crushing, pushing, drawing-in points) in compliance with the presently applicable prescriptions? If the protection is found insufficient, a respective note must be entered in chapter "Test result" and the required action must be taken!

2.4.1 Motional parameters (PARAMETER)

Parameter	Description	Setting range	Default	Adjusting
Vo	Opening speed (velocity open)	014 (550°/s)	6	
Vc	Closing speed (velocity close)	014 (550°/s)	4	
TOEx	Hold-open time opening element inside/outside (time hold opening element inside/outside)	060 s	3 s	
TKey	Hold-open time Key (time hold opening element Key)	0180 s	5 s	
TDelay	Starting delay (time delay lock)	0,04,0 s	0,2 s	
FDelay	Relieving force during unlocking (force delay), only effective if TDelay is > 0	0,07,0 A	OFF	
TLock	Door rectification time (time press close)	0,04,0 s	0,5 s	
FLock	Pressing force during locking (force lock), only effective if TLock is > 0	0,07,0 A	2,0 A	
FSlam	Accelerating function (force slam)	010	OFF	
FWind	Obstacle detection optimized for exterior doors (force wind)	OFF OPEN CLOSE BOTH	OFF	
Fo	Opening force (force open)	09	4	
Fc	Closing force (force close)	09	4	
Foh	Hold-open force (force open hold)	09	0	
Fch	Interlocking force (force close hold) ⇒ automatically programs FLock and FDelay if these are 0	0,03,5 A	0	
Ao	Opening angle of the door (angle open) If the opening angle is changed during the operating mode OPEN, the operating mode MANUAL needs to be selected for closing the door.	20(190°) Rod dep.	95° *	
Rod	Type of rod assembly (Rod) Normal rods Sliding rods pulling fonction Sliding rods pushing fonction Wing mounting without rods pushing fonction without rods pushing fonction pushing fonction pushing fonction pushing fonction pulling fonction	SLI-PL SLI-PH WIN-PH DIR-PH	STD-PH *	
Invers	Inverse application In the event of a power failure/error, the door leaf is opened by spring power from any position (unless it has not been locked). The position of the motor connector is reversed with regard to the standard drive mechanism. The electric lock/holding magnet must be connected in reverse order in comparison to the standard drive unit (see wiring diagram E4-0141-713_ECO).	OFF ON	OFF *	
dAxis	Distance between rotation axis of the door hinges and the mounting level of the drive mechanism (distance Axis). dAxis is an approximate value. Depending on the installation situation, dAxis may have to be adapted.	-8+25 cm Rod depending	0/+8 cm Rod dep. *	
Fos	Limitation of the opening force Must not be increased in Germany!	514 A	5 A	
FTic	Closing force in closed position before Teach (only visible if Inverse is ON).	514 A	5 A	

Note: A renewed setting-up procedure (Teach) is required.





2.4.2 Configuration (CONFIG)

Parameter	Description	Setting range	Default	Adjusting
APuGo	Triggering angle Push&Go (angle push&go)	OFF, 210°	OFF	
ASES	1) Suppression point Safety Element stop (angle safety element stop). If Ao is changed, ASES is auomatically set to Ao.	45°Ao	95° Ao depending (95°)	
ASER	2) Suppression range of the safety element reversing (angle safety element reversing)	060°	0°	
SeOpCo	Persistent opening (saferty element open continue) After a Safety Element Stop during the opening procedure, the door shall continue its opening move (instead of closing), as soon as SES is activated.	OFF ON	OFF	
SeOpTi	Waiting time till the drive mechanism closes even if SeOpCo = ON (saferty element opening time), in the event that a fixed object blocks the door (only visible if SeOpCo = ON)	PERMAN 160 s	20 s	
SESCIo	Safety element Stop activated/deactivated during the closing motion (safety element stop closing)	ACTIVE INACTI	INACTI	
EMY-IN	Configuration of the Emergency terminal (break contact) (emergency input)	CL-SPR (spring) STOP OPEN CL-MOT (motor)	CL-SPR	
OExStp	Step-by-step control function (opening element step)	OFF OEI OEO KEY RADIO	OFF	
FPReset	Acknowledgment of the fire alarm by the fire alarm central (only allowed in cases were the door is within sight distance of the fire alarm central)	OFF ON	OFF	
RC 0.1	Parametrizable relay output 1 on optional PCB 1 (relay contact) (only visible if relay PCB 0 is plugged in)	CLOSED OPENING	CLOSED	
RC 0.2	Parametrizable relay output 2 on optional PCB 1 (relay contact) (only visible if relay PCB 0 is plugged in)	OPEN CLOSING ERROR	OPEN	
RC 0.3	Parametrizable relay output 3 on optional PCB 1 (relay contact) (only visible if relay PCB 0 is plugged in)	PSAUTO PSNIGHT	ERROR	
RC 0.4	Parametrizable relay output 4 on optional PCB 1 (relay contact) (only visible if relay PCB 0 is plugged in)	PSEXIT PSOPEN	GONG	
RC 1.1	Parametrizable relay output 1 on optional PCB 2 (relay contact) (only visible if relay PCB 1 is plugged in)	PSMANU GONG LOCKED	OPENING	
RC 1.2	Parametrizable relay output 2 on optional PCB 2 (relay contact) (only visible if relay PCB 1 is plugged in)	SIX30S FP_RDY	CLOSING	
RC 1.3	Parametrizable relay output 3 on optional PCB 2 (relay contact) (only visible if relay PCB 1 is plugged in)	EMY_AL	PSAUTO	
RC 1.4	Parametrizable relay output 4 on optional PCB 2 (relay contact) (only visible if relay PCB 1 is plugged in)		LOCKED	
Unlock	Impulse/Permanent unlocking (impulse unlock)	IMPULS PERMAN	IMPULS	
EL-Fb	Return signal of the electric lock (electric lock feed back) N.O. Contact open if in the unlocked state (-), .closed if iin the locked state (+) N.C. Contact open in the locked state (+), closed in the unlocked state (-) (+) and (-) indicate the status in the diagnostic menu.	OFF N.O. N.C.	OFF	
LockAU	Operating mode AUTOMATIC locked (locked automat) (only visible if Unlock = Perman)	UNLOCK LOCK	UNLOCK	
LockEX	Operating mode EXIT locked (locked exit) (only visible if Unlock = Perman)	UNLOCK LOCK	LOCK	
LockMA	Operating mode MANUAL locked (locked manual) (only visible if Unlock = Perman)	UNLOCK LOCK	UNLOCK	
LcdDir	Orientation of the display (LCD direction)	01	0	
MovCon	Endurance test Open/Close (moving continuous)	OFF ON-FLT ON-PRM	OFF	
OExMAN	Acceptance of opening commands after a manual door opening (only if APuGo = OFF) (opening element inside/outside manual)	OFF ON	OFF	
PSKIZe	Zero position of the program setting (operating mode); fixed program position that can only be changed by means of the terminals on the control unit (program selector key in the side cover inactive). Use for external program switch (only four terminals) or for controlling the program positions via the terminals on the control unit. (program selection terminal zero)	NO ACT PSOPEN PSHAND PSAUTO PSEXIT PSNIGT	NO ACT	
SCBloc	Lock the program selector key in the side cover (side cover block) Toggle = Lock/unlock (press active program key during at least 5 seconds). Time = Lock (automatically after 5 minutes without any activation of the program keys), unlocking (press active program key during at least 5 seconds).	OFF TOGGLE TIME	OFF	





2.4.3 Installations with multiple door leaves (DOUBLE DOOR)

Parameter	Description	Setting range	Default	Adjusting
DubleD	Closing sequence role (Master/Slave) and interlock side (A/B)	OFF MastrA SlaveA MastrB SlaveB	OFF	
AoSeq	Current delay angle for opening sequence control (Slave) (only visible if DubleD is active)	0110°	20°	
AcSeq	Current delay angle for closing sequence control (Master) (only visible if DubleD is active)	0110°	20°	
InterL	Interlock	OFF SideA SideB	OFF	
ILAuto	Interlock mode Operating mode AUTOMATIC (only visible if InterL is active)	Inacti Active	Active	
ILExit	Interlock mode Operating mode EXIT (only visible if InterL is active)	Inacti Active	Active	
ILNigt	Interlock mode Operating mode NIGHT (only visible if InterL is active)	Inacti Active	Active	



Modifications	
Description	Dat./Vis.



3 SERVICE

This checkup work basically refers to visual and functional checking destined to evaluate the integrality, the condition and the efficiency of the components and safety devices (checking of the different elements as far as these are included in the installation).



Note:

The service must be carried out according to checklist in the Mounting and operating instructions 0548-990/62.



Warning:

To avoid jeopardizing the safety of persons, any defective safety elements may not be disonnected in order to continue the operation of the installation!

The competent specialist must make sure that the door installation has not been subject to any modifications which might cause dangerous situations:

- Check the door surroundings for any structural changes.
- Make sure that no objects (such as furniture, pallets, etc.) have been placed close to the door.



Attention:

In order to guarantee the availability of the installation, any elements showing signs of wear must be replaced as a preventive measure!

4 TEST RESULT

The "Test result" in this form is only given as a sample. Inasmuch as the manufacturer or the operator base the checkup on different equivalent documents (checklists), these documents may replace the test result form. They have to be continuously added to the present control chart.



Date		Tester	Shortcomings	mings
	added documents)	mpany	Acknowledgem. Visa operator	Elimination Date/Visa
	Commissioning			

Date		Tester	Shortcomings	mings
	(if necessary with reference to any added documents)	mpany	Acknowledgem. Visa operator	Elimination Date/Visa

Date		ster	Shortcomings	mings
	(if necessary with reference to any added documents)	Visa company	Acknowledgem. Visa operator	Elimination Date/Visa

Date		Tester	Shortcomings	mings
	(if necessary with reference to any added documents)	mpany	Acknowledgem. Visa operator	Elimination Date/Visa

Date		ster	Shortcomings	mings
	(if necessary with reference to any added documents)	Visa company	Acknowledgem. Visa operator	Elimination Date/Visa

NOTES		
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