



STEP 28E Secure™

– Sash lock electric strike for door automation

STEP 28E Secure is a sash lock electric strike that makes it possible to combine requirements for security, fire safety and evacuation with automatic door openers or pull handles. Approved fire resistance class E/EI 60.

Electrical locking for doors with many requirements

STEP 28E Secure is used in electrical locking where door automation or pull handles are to be combined with requirements for high security and/or fire containment.

The electric strike is used together with a sash lock, which provide good protection against burglary attempts while a door retaining function is always retained with a lever handle latch bolt.

Emergency evacuation function and fire safety requirements in fail secure and fail safe functions

STEP 28E Secure is often fitted with emergency evacuation locks according to EN 179 where fire safety requirements and evacuation are to be combined with automatic door openers. STEP 28E Secure also allows emergency opening via emergency open buttons at the fire cell limit.

Faceplates

There is a broad range of faceplates in stainless steel for STEP 28E Secure.

Suitable lock cases for the Scandinavian market

- Sash bolt locks in Kaba 1400 series
- Sash bolt locks in Connect series
- Sash bolt locks in the Modular series

When it has to work.



STEP
28E
SECURE

Technical data



Fire resistance class E/EI 60.

Power consumption with fail secure function		Power consumption with fail safe function	
24 V DC + 15 % - 10 %	12 V DC + 15 % - 10 %	24 V DC + 15 % - 10 %	12 V DC + 15 % - 10 %
500 mA unlocked	1000 mA unlocked	267 mA max 126 mA locked	534 mA max 98 mA locked

Power consumption 0 mA for rotating cam at rest (fail secure = locked, fail safe = unlocked)

Article number for Connect series	Article number for Modular series	Designation
ST280-AE*	ST280-CE**	Fail secure function, left 24 V DC.
ST280-BE*	ST280-DE**	Fail secure function, right 24 V DC.
ST281-AE*	ST281-CE**	Fail safe function, left 24 V DC.
ST281-BE*	ST281-DE**	Fail safe function, right 24 V DC.

NOTE: As standard STEP 28E Secure is delivered for 24 V DC connection.

For 12 V DC connection, "12" is added after the article number, for example, ST280-AE12.

* Connect, choose for 7 mm or 9 mm wide hook bolt, for example, ST280-AE 7MM.

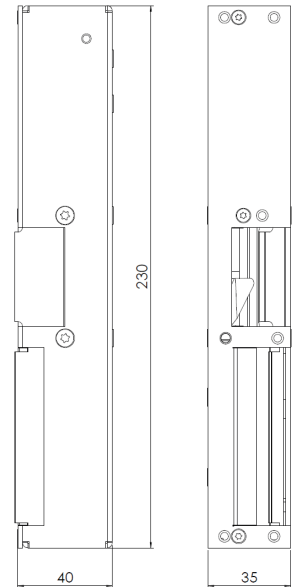
** Modular, choose for 10 mm or 12 mm wide bolt, for example, ST280-CE 10MM.

- Durability: Grade Y per EN 14846.
- Corrosion: Grade M per EN 14846.
- Security: Grade 7 per EN 14846.
- Security electrical manipulation: Grade 3 (fail secure) Grade 1 (fail safe) per EN 14846.
- Approved fire resistance class E/EI 60.
- Microswitch unipolar changeover, max. 30 V DC, 1 A.
- Built-in detection indication that the door is closed/open (bolt contact) and locked/unlocked (barrier contact) for connection to access control systems, alarm system, etc.
- Built-in protective diode.
- Break resistance over 15 kN (≈ 1500 kg).
- Ensures opening despite preload up to 5 kN (≈ 500 kg) in fail secure and fail safe functions.
- Anti-hammer secured.
- Including 5 metre connection cable.

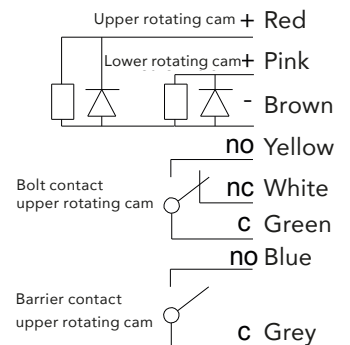
STEP's unique Preload technology

A common problem is that a door is subjected to pressure, for example, because the door is a little skew or that gravel or snow has gathered at the doorstep. STEP 28E Secure is equipped with STEP's unique Preload technology that allows the door to unlock, even if subjected to pressures of up to 500 kg.

- **Seals and pressure differences** – The Preload function enables the door to always be unlocked even when the door lock is tensioned against the electric strike.
- **Door automation** – The Preload function combined with rapid unlocking means that the door opens quickly and without risk of becoming stuck.
- **Evacuation door** – The Preload function ensures that a fire alarm can release the lock, despite pressure against the door by crowds, seals, pressure differences or warped doors.



Dimensional drawing STEP 28E Secure.



Wiring diagram with bolt contact. Connection is with a quick connector.