

# **CES OMEGA FLEX**

**Electronic cylinders** 

# **Dummy cylinder**



Euro profile cylinders





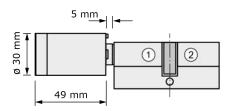


Swiss round cylinders (AP and GS)



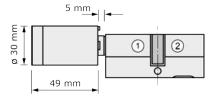
# Euro profile cylinder

- (1) Outside (Locking side "S")
- 2 Inside (Knob side "K")



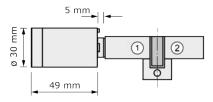
#### Euro profile cylinders AP and GS

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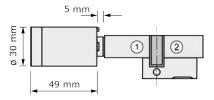
#### Swiss round cylinder

- Outside (Locking side "S")
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#### Swiss round cylinders AP and GS

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#### **Article numbers**

#### Euro profile cylinder

| FH* | Standard  | АР           | GS           |  |  |
|-----|-----------|--------------|--------------|--|--|
| no  | F802/13-x | F802/13-x-AP | F802/13-x-GS |  |  |
| yes | F902/13-x | F902/13-x-AP | F902/13-x-GS |  |  |

#### Swiss round cylinder

| FH* | Standard  | АР           | GS           |  |  |
|-----|-----------|--------------|--------------|--|--|
| no  | F602/13-x | F602/13-x-AP | F602/13-x-GS |  |  |
| yes | -         | -            | -            |  |  |

\*FH=Fire retardant, suitable for fire protection doors up to T90



# **Technical Data**

| Suitable locking media               |  |
|--------------------------------------|--|
| LEGIC                                | All locking media of type LEGIC prime and LEGIC advant, all locking media ISO 14443, HID iClass Additionally, all specified under "MIFARE"   |
| MIFARE                               | MIFARE® Classic® (1k/4k), MIFARE® DESFire® EV1 and EV2 (UID conforming to ISO 14443 and application), all ISO 14443 locking media (not MIFARE Ultralight® C)   |
| Reading range                        | Ca. 20 mm  |
| Online radio frequency               | 868 MHz  |
| Radio range to Access-Point          | Max. 25 m  |
| Encrypted data transmission          | 128 bit/AES  |
| Connection values                    | Battery: 1 x Panasonic CR2 Industrial Lithium 3,0 V 850 mAh  |
| Number of locking media              | Max. 5.000   |
| Number of events                     | Max. 5.000   |
| Number of master media               | Max. 1 System-Master, max. 10 Program-Master, max. 10 Time-Master, max. 10 Release-Master, max. 10 Block-Master, max. 10 RF-Stick-Masters, max. 100 Emergency-Keys, RF-Ini-Master unlimited, RF-Trace-Master unlimited |
| Opening duration                     | 2 - 180 seconds, adjustable (optional) (standard: 10 seconds)  |
| Temperature range                    | -25 °C bis +70 °C at 095% rH non-condensing  |
| Prohibited atmospheres               | Not suitable for use in corrosive atmosphere (chlorine, ammonia, lime water)   |
| Service life of the locking cylinder | DIN EN 1303 class 6 conform  |
| Programming                          | With master media, offline with an RF-Stick, CEStronics Wireless online network;<br>CEStronics V-NET virtual network   |
| Finish                               | Stainless steel  |
| CE testing                           | EN 300 220-1, 2; EN 300 330-1, 2; EN 301 489-1, 3; EN 60950-1, EN 62311  |
| Classification                       | DIN EN 15684:2013-01   |
| Fire resistance rating               | T90 conforming to DIN EN 1634-1 (only for FH-electronic cylinder "F9")   |

## Classification conforming to DIN EN 15684:2013-01

|   |        |  |                     |            |             | r                |                  |            |            |  |  |
|---|--------|--|---------------------|------------|-------------|------------------|------------------|------------|------------|--|--|
| Characteristic                            | Us     | e  | Duration            | Fire/Smoke | Environment | Mechanical       | Electronic       | System     | Attack     |  |  |
| Characteristic                            | clas   | SS   | frequency           | resistance | resistance  | locking security | locking security | management | resistance |  |  |
| Classification of                         |        |  |                     |            |             |                  |                  |            |            |  |  |
| electronic 1                              |        |  | 6                   | A/B*       | 4           | Α                | F                | 0/1/3**    | 0/2***     |  |  |
| cylinders                                 |        |  |                     |            |             |                  |                  |            |            |  |  |
| * (Fire/Smoke resista                     | nce) _ | A Standard version (= with moke protection)            |                     |            |             |                  |                  |            |            |  |  |
|   |        | B FH   | version (T90)       |            |             |                  |                  |            |            |  |  |
| ** (System management)                    |        | 0 Fo   | For NoTime variants |            |             |                  |                  |            |            |  |  |
|   | 1 Fo   | For variants with deactivated storage of access events |                     |            |             |                  |                  |            |            |  |  |
| 3 For TIME-, NET- or V-NET-Variants       |        |  |                     |            |             |                  |                  |            |            |  |  |
| *** (Attack resistance) 0 Standard option |        |  |                     |            |             |                  |                  |            |            |  |  |

2 Options with burglary protection (VdS and SKG\*\*\*)



#### Extensions

| Inside (K) /All dimensions in mm (AP and GS from 32,5) |  |   |  |  | (FH variants from 32.5) Outside (S) /All dimensions in m |  |  |      |  | ons in mm |
|--|--|---|--|--|--|--|--|------|--|-----------|
| 87.5   |  | 72.5 62.5 32.5 27.5 27.5 32.5 62.5 72.5 |  |  |  |  |  | 87.5 |  |           |
|  | Max. Axial dimension 87.5 mm. Extension in 5 mm steps.  Max. Axial dimension 87.5 mm. Extension in 5 mm steps. |   |  |  |  |  |  |      |  |           |
|  | Max. total length 175 mm.  |   |  |  |  |  |  |      |  |           |

#### Variants

|                            | Variant | Meaning  |         |
|----------------------------|---------|--|---------|
| LINE                       | /N      | "NoTime" (No time profiles, no events available)                                     | Offline |
| (Authorisations are stored | /T      | "Time" (Time profiles and events available)  | Offline |
| in the device)             | /NET    | "Net" (Wireless online network, Time profiles and events available)                  | Online  |
| V-NET                      | /TV     | "Time" in V-NET (Time profiles and events available)                                 | Offline |
| (Authorisations are stored | /VA     | "Validation" (Validation function, wireless online network, time profiles and events | Online  |
| in the locking media)      |         | available)   |         |

#### Options

| Option | Meaning   |
|--------|---|
| SKG*** | Anti-drilling and anti-pulling protection conforming to SKG ***                                   |
| VdS    | Anti-drilling and anti-pulling protection conforming to VdS 2156 BZ+ (not possible for variant N) |
| WP     | Weatherproof conforming to IP65   |
| ST     | Soft touch coating of the knobs   |

## **Battery life**

| Usage profile of the                       | Battery life*   |                 |  |  |  |  |
|--|-----------------|-----------------|--|--|--|--|
| electronic cylinders                       | LEGIC           | MIFARE          |  |  |  |  |
| Standby without access operations          | up to 2 years   | up to 2.5 years |  |  |  |  |
| Standby and up to 10 access operations per | up to 1.5 years | up to 2 years   |  |  |  |  |
| day  |                 |                 |  |  |  |  |
| Max. number of opening/closing operations  | up to 34,000    | up to 32,000    |  |  |  |  |
| per battery                                |                 |                 |  |  |  |  |

<sup>\*</sup>The information applies to an ambient temperature of 20 °C. Deviating temperatures, usage frequency and parameter settings of the locking devices can result in strongly divergent values.

# Ordering example

| Article number                       | Variant | Options | Finish       | Length K    | Length S       |
|--------------------------------------|---------|---------|--------------|-------------|----------------|
| (F8 = no T90, F9 = T90, F6 = CH)     |         |         | Standard = 0 | (Knob side) | (Locking side) |
| (AP = Anti-panic, GS = Gearbox lock) |         |         |              |             |                |
| F802/13-x                            | NET     | ST      | 0            | 42,5        | 42,5           |