
Tender Description

Movable bollard M30

Movable bollard M30 with integrated hydraulic aggregate including installation frame, metal housing, metal housing frame, cover plate and separate control unit for up to five bollard units.

KINETIC IMPACT ENERGY:

667 kJ (7500 kg @ 48 km/h)

CERTIFICATION:

Crash test certified according to PAS 68:2013 V/7500[N2]/48/90:0.0/0.0 and IWA 14-1:2013 V/7200[N2A]/48/90:0.4

WHEEL LOAD:

100 kN wheel load according to SLW60 - DIN 1072

BOLLARD CONFIGURATION:

Single unit
Double unit
Triple unit
Quadruple unit
Penta unit

BLOCKING ELEMENT:

Diameter: 355 mm
Wall thickness: 16 mm (steel)
Blocking height: 1000 mm
Blocking element complete with screwed on top plate
Optional: Blocking element fitted with stainless steel sleeve and stainless steel top plate

LIGHTING (OPTIONAL):

Bollard top lighting, Ufo-shape
Colour: LED red, white or yellow

TAMPERING RESISTANCE (OPTIONAL):

Reed contact for cover plate

OPERATING TIMES:

Raising: 5-6 sec
Lowering: 3-4 sec
Emergency Fast Operation (EFO): raising 2-3 sec (with optional accumulator)

Tender Description

EMERGENCY OPERATION DURING POWER FAILURE:

Bollard remains in raised position and can be lowered manually.

Optional: Accumulator and rechargeable battery pack for one raising movement with charged accumulator (RO1)

HYDRAULIC FLUID:

Biodegradable hydraulic fluid Plantohyd 22 S, non-hazardous to water, or mineral oil HLP 22

HEATER (OPTIONAL):

Heater for up to -30°C

ACCUMULATOR (OPTIONAL):

Accumulator for Emergency Fast Operation (EFO) and one raising movement with charged accumulator during power failure (RO1) in connection with optional rechargeable battery pack

DRIVE:

1.1 kW, 120 V, single phase, 60 Hz

SUPPLY VOLTAGE:

120 V (1Ph + N + PE), 60 Hz

CONTROL:

Control voltage 24 V DC

Max. distance between bollard and control unit: 50 m

Microprocessor control unit WE-Tronic II in control box (IP 66) for wall installation inside a building

Optional: With rechargeable battery pack for RO1

Optional: Socket SCHUKO type F, plug CEE 7/3 mounted on a top-hat rail inside the control box

OUTDOOR CONTROL CABINET (OPTIONAL):

Control box installed in outdoor control cabinet complete with rain cover, hygostat, thermostat, heater, fan, hose-proof hood and outdoor coating HxWxD = 1200x1200x400 mm + 200 mm socket (for single, double and triple bollard unit with RO1) or HxWxD = 1000x800x400 mm + 200 mm socket (for all other bollard units) respectively

LOCKING MECHANISM FOR OPTIONAL CONTROL CABINET:

3-point locking system with double-bit insert

Optional: Folding lever handle with profile cylinder

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CONTROL DEVICES (OPTIONAL):

- Push button "raise/stop/lower" or key switch "raise/stop/lower"
- Key switch "fire brigade"
- Key switch "automatic closing on/off"
- Anti-terror push button (for EFO/EO)
- Light beam system
- Remote control receiver, 4-channel including rod antenna
- 2-channel or 4-channel hand-held transmitter
- 1-channel or 2-channel loop detector
- Traffic light red/green, D200
- Flashing permanent beacon or revolving beacon
- Alarm horn for outdoor control cabinet
- Potential free contacts "bollard raised/lowered"
- Reed contact for cover plate
- Door contact switch for optional outdoor control cabinet

FINISH:

Blocking element: Standard RAL colour 6005, 7016, 7030, 7035 or 9010

Optional: Blocking element: Special RAL colour or

blocking element fitted with stainless steel sleeve and stainless steel top plate

Bollard top plate: Galvanised finish

Optional: Bollard top plate in RAL colour of blocking element

or stainless steel bollard top plate (only in connection with stainless steel sleeve)

Cover plate: Galvanised finish

Optional: Cover plate in RAL colour of blocking element

Metal housing: Galvanised finish

INSTALLATION UNIT:

The bollard M30 is delivered as a ready to install unit. The electro-hydraulic drive unit is mounted to the installation frame and factory-adjusted.

FOUNDATION:

Reinforced foundation according to manufacturer's instructions