
Tender Description

Movable bollard M50

Movable bollard M50 with integrated hydraulic aggregate including base frame, guidance, metal housing, cover plate and separate control unit for up to five bollard units.

IMPACT LOAD/KINETIC ENERGY:

1852 kJ (7.5 t @ 80 km/h)

crash test certified according to ASTM F 2656-07 M50/P2,
PAS 68:2013 V/7500[N3]/80/90:5.2/7.8 and
IWA 14-1:2013 V/7200[N3C]/80/90:5.5

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: 30 mm (steel)

Blocking height: 1100 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 top plate and cover plate

OPERATING TIMES:

Raising: 5-6 sec

Lowering: 3-4 sec

Emergency Fast Operation (EFO): raising 2-3 sec
(with optional accumulator)

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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:

2.25 kW nominal power, 400 Volt AC, three phase, 50 Hz

SUPPLY VOLTAGE:

400 V (3Ph + N + PE), 50 Hz

CONTROL:

Control voltage 24 V

Max. distance between bollard and control unit: 50 m

PLC in control box IP 66 for wall installation inside a building

Available control unit configurations Standard, Plus, Vario or Vario 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

for control unit configuration Vario

HxWxD=1000x800x400 plus 200 mm socket

for control unit configuration Vario RO1

HxWxD=1200x1200x400 plus 200 mm socket

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LOCKING MECHANISM FOR OPTIONAL CONTROL CABINET:

3-point locking system with double-bit insert

Optional: Folding lever handle with profile cylinder

CONTROL DEVICES (OPTIONAL):

- push button "raise/stop/lower" or key switch "raise/stop/lower"
- key switch "fire brigade"
- anti-terror push button (for EFO)
- light beam system
- remote control receiver
- antenna for remote control receiver
- hand-held transmitter
- additional push button or key switch
- double loop detector
- key switch "Automatic on/off"
- traffic light red/green, D200
- signal horn for outdoor control cabinet or rotating beacon without warning time (active during movement of bollard)
- potential free contacts "bollard raised/lowered"
- reed contact for bollard top plate and 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 M50 is delivered as a ready to install unit. The electro-hydraulic drive unit is integrated in the blocking element and factory-adjusted.

FOUNDATION:

Reinforced foundation according to manufacturer's instructions

Tender Description

MANUFACTURER:

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