



1. movable bollard M50, Impact load 1699 kJ (15.000lbs @ 50 mph)
Certified according to ASTM F2656-07 M50/P2
Raising approx. 5-6 sec, lowering approx. 3-4 sec
Emergency operation: bollard remains in raised position during power failure and can be lowered manually
Drive unit: 2.25 kW (nominal power), 400 V (three phase), 50 Hz
2. control board in control box for wall installation inside a building, max. distance to bollard: 50 m
3. optional: anti-terror push button
4. optional: push button "Raise-Stop-Lower"
5. flexible conduits Ø25 mm (by client, from bollard to control unit)
6. conduit pipe nominal diameter 100 for drainage (by client)
7. foundation with reinforcement, concrete min. 4.350 psi (reinforcement according to separate reinforcement plan)
Building ground for the foundation must allow for a soil pressure of 14.50377 psi
Conduit pipes and cables to be supplied by client.
8. optional: Control cabinet for outdoor installation
HxWxD = 1000x800x400 mm (for control unit configuration Vario)
HxWxD = 1200x1200x400 mm (for control unit configuration Vario RO1)

Bollard configuration:

- Single unit
- Double unit
- Triple unit
- Quadruple unit
- Penta unit

Blocking element (Standard)

- RAL 6005
- RAL 7016
- RAL 7030
- RAL 7035
- RAL 9010

Top plate:

- Galvanised finish
- In RAL colour of blocking element
- Stainless steel (only in connection with stainless steel sleeve)

Blocking element (Optional):

- RAL _____
- Stainless steel sleeve with screwed on top plate

Cover plate:

- Galvanised finish
- In RAL colour of blocking element

Optional:

- Accumulator for Emergency Fast Operation (EFO): raising approx. 2-3 sec
- Rechargeable battery pack for RO1
- Heater
- Reed-Contacts Manipulation

UFO-Lighting optional:

- LED red
- LED white
- LED yellow

Access control equipment:

- _____
- _____
- _____
- _____

Control unit configuration:

- Standard
- Plus
- Vario
- Vario RO1

	Supply cable (by others)
Single bollard unit	NY-Y-J 5x4mm ²
Double bollard unit	NY-Y-J 5x4mm ²
Triple bollard unit	NY-Y-J 5x6mm ²
Quadruple bollard unit	NY-Y-J 5x10mm ²
Penta bollard unit	NY-Y-J 5x10mm ²

A	NY-Y-J	4x4mm ²	motor pump
B	NY-Y-J	4x1.5mm ²	valves
C	A2YF2Y	6x2x0.8mm ²	limit switches, reed-contacts (optional), pressure switch (optional)
D	NY-Y-J	3x1.5mm ²	UFO-lighting (optional)
E			heater (optional)
F	A2Y(L)2Y	4x2x0.8mm ²	reserve push button (optional)
G	A2Y(L)2Y	4x2x0.8mm ²	anti-terror push button (optional)

Customer: _____
 Project: _____
 Order - No.: _____ Pos. _____
Important:
 Filled out: date _____ name _____

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			1534.999 kg		
	Sloan Hydraulic Retractable Bollard HB-2050 M50/P2				
last change:		scale		1:10	
general tolerances acc. DIN ISO 2768-mK		dim. unit		mm	
surface ISO 1302		format		DIN A2	
draft	date	name	part-No.	revision	
design			dwg.-No.	f	
replaces			Version FS Index 3		
origin					

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