Automatic bollards EMB

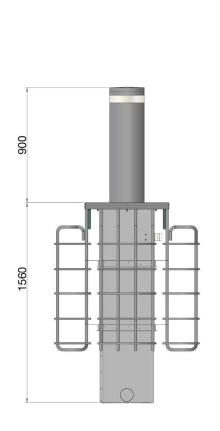
with integrated electromechanical operator

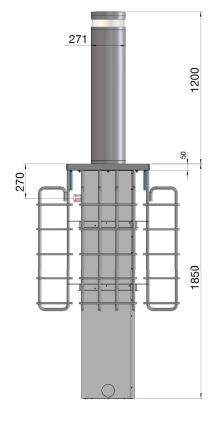
AE275/K12-900/ AE275/M50-1200

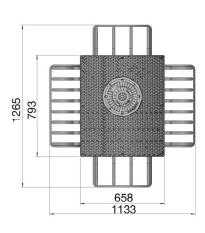


Product description							
Automatic Bollards (AE)		AE275/K12-900	AE275/M50-1200				
Movable cylinder	Height	900 mm	1200 mm				
	Diameter	271 mm					
	Material thickness	23 mm					
	Material	Steel S355JR Stainless steel (AISI 304) /(AISI 316)					
	Surface treatment	Steel version: anti-corrosion treatment – standard painting * Stainless steel version: standard painting * or brushed					
	Reflecting strips (height 55 mm)	Yes					
	Lifting speed	22 cm/s 22 cm/s					
	Lowering speed	22 cm/s	22 cm/s				
Manual emergency lowering		Yes					
Connecting cable to control unit		Standard 10 m – (max. 50 m)					
Control unit voltage		230 / 400 V AC (+/– 10 %) 50 / 60 Hz					
Protection category		IP 67					
Cycles per day		2,000					
Overall cycles (service life)		Approx. 3,000,000					
Impact energy without destruction - impact resistance		700,000 J					
Impact energy with destruction - breakout resistance		2,000,000 J					
Load rating acc. to EN 124		D400 Regulation					
Temperature range		From –40°C to +70°C (for low temperatures, see heating element article no. 4515342)					
Certified acc. to		PAS68, IWA14-1, ASTM M50 (K12)	PAS68, IWA14-1, ASTM M50 (K1				

^{*} For orders with no surcharge in RAL to choose, the standard colour is Anthracite grey.







AE275/K12-900 / AE275/M50-1200 with inte electromechanical operator	egrated	ated			AE275/K12-900		AE275/M50-1200	
•					Article no.		Article no.	
utomatic bollard AE275/K12-900 / .F275/M50-1200		Steel painted			PY101093		PY101023	
ALL FORMOG 1200	Stainless steel painted			P`			′107023	
	Stainless steel brushed				PY113093 PY113023		′113023	
utomatic bollard AE275/K12-900 /	Steel painted			P'	PY103093 PY1030		103023	
Lighting strips with 25 LEDs	Stainless steel painted			P	PY108093 PY108023		′108023	
	Stainless steel brushed				PY115093 PY115023		′115023	
automatic bollard AE275/K12-900 /	Steel painted				PY122093		PY122023	
E275/M50-1200 Lighting strips with 25 LEDs	Stainless steel painted				PY123093		PY123023	
EFO emergency function to quickly	Stainless steel brushed				PY124093		PY124023	
raise the bollard (in approx. 1.5 s)							.:	
oundation box for automatic bollards				ΔΕ	275/K12_900		ticle no. /151010	
Steel foundation box with aluminium zinc coating, with counterframe and reinforcement rods					AE275/K12-900 AE275/M50-1200		PY151010 PY151012	
					AE275/M50-1200 AE275/K12-900		/151012 /151011	
tainless steel foundation box, water-tight version, vounterframe and reinforcement rods	with immersion pump				275/N12-900 275/M50-1200		PY151011 PY151013	
Surcharge for upper stainless steel counterframe (A	JSI 304)			AEZ	_, J/1V1JU=1ZUU		\101881	
uspended foundation box kit for AE75/K12-M50 bo upper plate, frame cover and lower water-tight sta nchors) ATTENTION! The bollard assembled in letal cap for foundation box (with screws)	ainless steel foundatio			certified			A107151 A900851	
Controls for automatic bollards								
ontrols for bollards		for 1bollard	for 2bollards	for 3bollards	for 4bollards	for 5bollards	for 6 to 10 bolls	
	Article no.	PY152001	PY152002	PY152003	PY152004	PY152005	PY152098	
.E275/K12-900 / AE275/M50-1200	Article IIO.	F1132001	1 1 102002	1 1 102000	F1132004			
Controls for bollards	Article IIo.	for 1bollard	for 2bollards	for 3bollards	for 4bollards	for 5bollards	for 6 to 10 bolla	
Controls for bollards	Article no.					for 5bollards PY152015	for 6 to 10 bolla PY152099	
ontrols for bollards ith EFO emergency function E275/K12-900 / AE275/M50-1200	Article no.	for 1bollard PY152011	for 2bollards	for 3bollards	for 4bollards			
ontrols for bollards ith EFO emergency function E275/K12-900 / AE275/M50-1200	Article no.	for 1bollard PY152011	for 2bollards	for 3bollards	for 4bollards			
ontrols for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EF	Article no.	for 1bollard PY152011	for 2bollards	for 3bollards	for 4bollards	PY152015		
ontrols for bollards rith EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EF	Article no. O emergency function	for 1bollard PY152011	for 2bollards	for 3bollards PY152013	for 4bollards PY152014	PY152015	PY152099	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EF optional extras for automatic bollards urcharge for painting the cylinder in RAL to choose	Article no. O emergency function	for 1bollard PY152011	for 2bollards	for 3bollards PY152013	for 4bollards PY152014 nder 275-900	PY152015 Ari AA	PY152099 ti cle no. A900871 A104131	
ontrols for bollards rith EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EF Optional extras for automatic bollards urcharge for painting the cylinder in RAL to choose urcharge for cylinder version in brushed stainless	Article no. O emergency function e steel (AISI 316)	for 1bollard PY152011 n on request.	for 2bollards	for 3bollards PY152013	for 4bollards PY152014	PY152015 Arti AA AA	PY152099 ti cle no. A900871	
Controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EF Optional extras for automatic bollards Courcharge for painting the cylinder in RAL to choose Courcharge for cylinder version in brushed stainless Accoustic warning signal (for bollards only in combin	Article no. O emergency function e steel (AISI 316) ation with LED lighting	for 1bollard PY152011 n on request.	for 2bollards	for 3bollards PY152013 Cyli	for 4bollards PY152014 nder 275-900	Ari AA AA AA	PY152099 ticle no. A900871 A104131 A104161	
controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO ptional extras for automatic bollards Surcharge for painting the cylinder in RAL to choose surcharge for cylinder version in brushed stainless Accoustic warning signal (for bollards only in combin protection against corrosion - marine treatment - for	Article no. O emergency function e steel (AISI 316) ation with LED lighting	for 1bollard PY152011 n on request.	for 2bollards	for 3bollards PY152013 Cyli Cyli	for 4bollards PY152014 nder 275-900 nder 275-1200	Ari AA AA AA AA	PY152099 ticle no. A900871 A104131 A104161 A103261	
controls for bollards with EFO emergency function DE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Detional extras for automatic bollards Courcharge for painting the cylinder in RAL to choose Courcharge for cylinder version in brushed stainless Coustic warning signal (for bollards only in combin Protection against corrosion - marine treatment - for Collards (recommended for saline ambient condition)	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel is) r painted stainless ste	for 1bollard PY152011 n on request.	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2	for 4bollards PY152014 nder 275-900 nder 275-1200	Ari AA AA AA AA	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281	
controls for bollards with EFO emergency function DE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Detional extras for automatic bollards Courcharge for painting the cylinder in RAL to choose Courcharge for cylinder version in brushed stainless Coustic warning signal (for bollards only in combin Protection against corrosion - marine treatment - for Collards (recommended for saline ambient condition)	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel is) r painted stainless ste	for 1bollard PY152011 n on request.	for 2bollards	for 3bollards PY152013 Cylii Cylii AE2 AE2 AE2	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/M50-1200	PY152015 Ari AA AA AA AA AA AA	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311	
Controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Diptional extras for automatic bollards Burcharge for painting the cylinder in RAL to choose Burcharge for cylinder version in brushed stainless Accoustic warning signal (for bollards only in combin Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition)	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless steens) r brushed stainless steens	for 1bollard PY152011 n on request. g strips)	for 2bollards	for 3bollards PY152013 Cylii Cylii AE2 AE2 AE2	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/M50-1200 275/K12-900	PY152015 Ari AA AA AA AA AA AA AA	PY152099 ticle no. A900871 A104161 A104161 A103261 A107281 A107311 A107291	
Controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO ptional extras for automatic bollards Surcharge for painting the cylinder in RAL to choose a coustic warning signal (for bollards only in combin protection against corrosion - marine treatment - for collards (recommended for saline ambient condition against corrosion - marine treatment - for collards (recommended for saline ambient condition against corrosion - marine treatment - for collards (recommended for saline ambient condition against corrosion - marine treatment - for collards (recommended for saline ambient condition against corrosion - marine treatment - for collards (recommended for saline ambient condition and conditions)	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless steens) r brushed stainless steens	for 1bollard PY152011 n on request. g strips)	for 2bollards	for 3bollards PY152013 Cylii Cylii AE2 AE2 AE2 AE2 AE2	nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900	Ari AA AA AA AA AA AA	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311 A107291 A107321 A107301 A107331	
Controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Diptional extras for automatic bollards Burcharge for painting the cylinder in RAL to choose Burcharge for cylinder version in brushed stainless Accoustic warning signal (for bollards only in combin Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition)	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) r brushed stainless ste ns)	for 1bollard PY152011 n on request. g strips)	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/M50-1200 nder 275-900	Arti	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311 A107291 A107321 A107331 A107331 A107331	
Controls for bollards with EFO emergency function NE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO politional extras for automatic bollards Surcharge for painting the cylinder in RAL to choose surcharge for cylinder version in brushed stainless Accoustic warning signal (for bollards only in combin protection against corrosion - marine treatment - for collards (recommended for saline ambient condition protection against corrosion - marine treatment - for collards (recommended for saline ambient condition protection against corrosion - marine treatment - for collards (recommended for saline ambient condition protection against corrosion - marine treatment - for collards (recommended for saline ambient condition condition).	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) r brushed stainless ste ns) der (difference)	for 1bollard PY152011 n on request. g strips)	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 Cyli Cyli Cyli	nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/K12-900	PY152015 Art AA AA AA AA AA AA AA AA A	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311 A107291 A107321 A107331	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 controls for more than 10 bollards without / with EFO potional extras for automatic bollards urcharge for painting the cylinder in RAL to choose urcharge for cylinder version in brushed stainless coustic warning signal (for bollards only in combin rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition nurling on AE275/K12-M50 bollard with steel cylin nurling on AE275/K12-M50 bollard with stainless saline and the stainles	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) r brushed stainless ste ns) der (difference)	for 1bollard PY152011 n on request. g strips)	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli Cyli	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K50-1200 275/K12-900 275/K12-900 275/K12-900 nder 275-900 nder 275-1200 nder 275-1200	Ari AA AA AA AA AA AA AA AA AA	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311 A107321 A107321 A107331 A107331 A101781 A101781 A101831 A101821	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EFO politional extras for automatic bollards urcharge for painting the cylinder in RAL to choose urcharge for cylinder version in brushed stainless coustic warning signal (for bollards only in combinate of the commended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition nurling on AE275/K12-M50 bollard with steel cylin nurling on AE275/K12-M50 bollard with stainless samergency lowering in case of power failure	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (differen	for 1bollard PY152011 n on request. g strips) eel eeel	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli Cyli	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K50-1200 275/K50-1200 275/K12-900 275/K12-900 275/K50-1200 nder 275-900 nder 275-900 nder 275-900	Ari AA AA AA AA AA AA AA AA AA	PY152099 dicle no. A900871 A104131 A104161 A107281 A107311 A107321 A107321 A107331 A101781 A101811 A101821 A107071	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Dotional extras for automatic bollards curcharge for painting the cylinder in RAL to choose furcharge for cylinder version in brushed stainless coustic warning signal (for bollards only in combin errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection against corrosion - marine treatment - for collards (recommended for saline ambient condition errotection aga	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (difference)	for 1bollard PY152011 n on request. g strips) eel eel	for 2bollards	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli Cyli Cyli per	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/M50-1200 nder 275-900 nder 275-1200 nder 275-1200 control	Art AA	PY152099 ticle no. A900871 A104131 A104161 A103261 A107281 A107311 A107291 A107321 A107331 A107331 A101781 A101811 A101831 A101821 A107071 A100901	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 ontrols for more than 10 bollards without / with EFO politional extras for automatic bollards urcharge for painting the cylinder in RAL to choose urcharge for cylinder version in brushed stainless coustic warning signal (for bollards only in combinate or controls of against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition rotection against corrosion - marine treatment - for collards (recommended for saline ambient condition nurling on AE275/K12-M50 bollard with steel cylin nurling on AE275/K12-M50 bollard with stainless samergency lowering in case of power failure eating element incl. transformer and thermostat 18 extended connecting cable from bollard AE275-M30 on total) supplied in 5 m increments	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (difference) steel cylinder (difference)	for 1bollard PY152011 n on request. g strips) eel eel d 10 m ol (max.	for 2bollards PY152012	for 3bollards PY152013 Cylii Cylii AE2 AE2 AE2 AE2 Cylii Cylii Cylii Cylii Per	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/M50-1200 nder 275-900 nder 275-1200 nder 275-1200 control	Ari AA AA AA AA AA AA AA AA AA	PY152099 dicle no. A900871 A104131 A104161 A103261 A107281 A107321 A107321 A107321 A107331 A101781 A101811 A101831 A101821 A107071 A107071 A107001	
Controls for bollards with EFO emergency function NE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Diptional extras for automatic bollards Burcharge for painting the cylinder in RAL to choose Burcharge for cylinder version in brushed stainless Burcharge for automatic bollards Burcharge	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (difference) steel cylinder (difference)	for 1bollard PY152011 n on request. g strips) eel eel d 10 m ol (max.	for 2bollards PY152012	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli per Per	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K50-1200 275/K50-1200 nder 275-900 nder 275-1200 nder 275-900 nder 275-900 nder 275-900 nder 275-1200 control	Ari AA AA AA AA AA AA AA AA AA	PY152099 dicle no. A900871 A104131 A104161 A103261 A107281 A107321 A107321 A107331 A101781 A101811 A101831 A101821 A107071 A107071 A107071 A107071 A107111	
controls for bollards with EFO emergency function E275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO potional extras for automatic bollards Euroharge for painting the cylinder in RAL to choose furcharge for painting the cylinder in RAL to choose furcharge for cylinder version in brushed stainless accoustic warning signal (for bollards only in combination of the commended for saline ambient condition against corrosion - marine treatment - for collards (recommended for saline ambient condition are treatment against corrosion - marine treatment - for collards (recommended for saline ambient condition are treatment against corrosion - marine treatment - for collards (recommended for saline ambient condition and treatment against corrosion - marine treatment - for collards (recommended for saline ambient condition and treatment against corrosion - marine treatment - for collards (recommended for saline ambient condition and treatment against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment - for collards (recommended for saline ambient condition and collards) against corrosion - marine treatment	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (difference) 50 W, connecting lead 0 / K12 / M50 to contr 1 bollard (up to 1 hou	for 1bollard PY152011 n on request. g strips) eel eel d 10 m ol (max.	for 2bollards PY152012	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli per Per	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K12-900 275/K12-900 275/M50-1200 nder 275-900 nder 275-1200 nder 275-1200 control	Ari AA AA AA AA AA AA AA AA AA	PY152099 dicle no. A900871 A104131 A104161 A103261 A107281 A107311 A107291 A107321 A107331 A101781 A101811 A101831 A101821 A107071 A100901 A107111 B101761 A108811	
Controls for bollards with EFO emergency function AE275/K12-900 / AE275/M50-1200 Controls for more than 10 bollards without / with EFO Diptional extras for automatic bollards Burcharge for painting the cylinder in RAL to choose Gurcharge for cylinder version in brushed stainless accoustic warning signal (for bollards only in combin Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition Protection against corrosion - marine treatment - for collards (recommended for saline ambient condition Control of the formation	Article no. O emergency function e steel (AISI 316) ation with LED lighting r painted steel ns) r painted stainless ste ns) der (difference) steel cylinder (difference) 50 W, connecting lead 0 / K12 / M50 to contr 1 bollard (up to 1 hours d sheet) (AISI 304)	for 1bollard PY152011 n on request. g strips) eel eel d 10 m ol (max.	for 2bollards PY152012	for 3bollards PY152013 Cyli Cyli AE2 AE2 AE2 AE2 Cyli Cyli Cyli Cyli per Per	for 4bollards PY152014 nder 275-900 nder 275-1200 275/K12-900 275/K12-900 275/K50-1200 275/K50-1200 nder 275-900 nder 275-1200 nder 275-900 nder 275-900 nder 275-900 nder 275-1200 control	Ari AA AA AA AA AA AA AA AA AA	PY152099 dicle no. A900871 A104131 A104161 A103261 A107281 A107321 A107321 A107301 A107331 A101781 A101811 A101831 A101821 A107071 A107071 A107071 A107071	

AA108161

Project inclination required (if not available)