

Sensing Accessories

Mounting Brackets

page 370

- Using the right bracket ensures optimum performance from your Banner sensors.
- Stainless steel and reinforced thermoplastic polyester mounts reduce installation time and lower total installed cost.
- Choice includes angled, through-hole brackets and split-clamp models that mount to a flat surface.
- Versatile swivel-mount models mount flat and have an adjustable ball to position the sensor at any angle.
- Custom brackets can be designed for your unique applications.



Quick-Disconnect (QD) Cables

page 410

- Allow sensors to be replaced or moved quickly, minimizing downtime.
 - Pico- (M8), Euro- (M12), and Mini-styles are available for dc powered sensors.
 - Micro- and Mini-styles are available for ac powered sensors.
 - Choose straight or right-angle connectors.



Retroreflectors and Tape

page 425

- Banner offers a complete line of high-quality acrylic targets, high-temperature targets and adhesive-backed retroreflective tapes (not shown).
- Numerous sizes, shapes and mounting options meet your application requirements.
- New high-reflectivity models dramatically increase sensing ranges, with reflectivity factors up to 3x.
- Maximum temperature ratings range from 50° to 480° C.
- Various mounting options are available.



Harsh Duty Enclosures & Lens Shields

page 436

- Lens shields protect emitter/receiver from impact and contamination.
- Tubular enclosures guard entire EZ-ARRAY™ emitter/receiver in washdown environments.
- Heated enclosures protect MINI-ARRAY® emitter/receiver in outdoor environments.



Miscellaneous

Stands and Mounting Systems	page 441
Apertures and Aperture Kits	443
Replacement Lens Assemblies	445
Alignment Tools	446
Power Supplies & Interface Modules	447

BRACKETS

CABLES

RETROREFLECTORS

ENCLOSURES/
LENS SHIELDS

MISCELLANEOUS

Banner Bracket Selection Chart

Sensor	Used With							
WORLD-BEAM® Q12 page 46 	SMBQ12A page 393	SMBQ12T page 394						
T8 page 49 	SMB8MM page 383							
MINI-BEAM®2 page 52 	SMBQS12PD page 396	SMBQ12S page 396						
M12 page 55 	SMBQS12PD page 396							
VS1 page 58 	SMBVS1S page 400	SMBVS1SC page 400	SMBVS1T page 401	SMBVS1TC page 401				
VS2 page 61 	SMBVS2RA page 401							
VS3 page 64 	SMBVS3S page 401	SMBVS3T page 402						
VS4 page 67 	SMBVS4SRA page 402							
WORLD-BEAM® QS18 page 70 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	
	SMB30SK page 380	SMB30SUS page 380	SMB312PD page 381	SMB312S page 380	SMB4050YL page 381	SMB46A page 381	SMB46L page 382	
	SMB46S page 382	SMB46U page 382	SMBAMS18P page 384	SMBAMS18RA page 384	SMBQS18A page 397	SMBQS18AF page 397	SMBQS18DIN page 397	
	SMBQS18RA page 397	SMBQS18Y page 398	SMBQS18YL page 398	SMH241F page 402				
MINI-BEAM® page 79 	SMB18A page 377	SMB18FA page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	SMB30SK page 380	
	SMB30SUS page 380	SMB312B page 380	SMB312PD page 381	SMB312S page 380	SMB46L page 382	SMB46S page 382	SMB46U page 382	
	SMBAMS18P page 384	SMBAMS18RA page 384	SMH241F page 402					
WORLD-BEAM® Q20 page 92 	SMBQ20 page 394	SMBQ20L page 395	SMBQ20LV page 395	SMBQ20U page 395				
S18 page 95 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	
	SMB30SK page 380	SMB312PD page 381	SMB46A page 381	SMBAMS18P page 384	SMBAMS18RA page 384			
M18 page 95 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	
	SMB30SK page 380	SMB312PD page 381	SMB30SK page 380	SMB312PD page 381	SMBAMS18P page 384	SMBAMS18RA page 384		

BRACKETS

CABLES

RETROREFLECTORS

ENCLOSURES/
LENS SHIELDS

MISCELLANEOUS

Banner Bracket Selection Chart

Sensor	Used With						
T18 page 101 	SMB1815SF page 376	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378
	SMB3018SC page 378	SMB30SK page 380	SMB312PD page 381	SMBAMS18P page 384	SMBAMS18RA page 384	SMBT18Y page 400	
Q25 page 106 	SMB18A page 377	SMB18FA page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	SMB30SK page 380
	SMB312PD page 381						
WORLD-BEAM® QS30 page 112 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 382	SMB46L page 382	SMB46S page 382
	SMBAMS30P page 384	SMBAMSRAB page 387	SMBQS30L page 398	SMBQS30LT page 398	SMBQS30Y page 399	SMBQS30YL page 399	
S30 page 121 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385
SM30/SMI30 page 125 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385
T30 page 129 	SMB1815SF page 376	SMB30SC page 379	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	
	SMBAMS30P page 384	SMBAMS30RA page 385					
Q40 page 133 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385
PicoDot® page 137 	SMB46A page 381	SMB46L page 382	SMB46S page 382	SMB46U page 382			
QM42/QMT42 page 140 	SMB3018SC page 378	SMB30SK page 380	SMB30SUS page 380	SMB312S page 381	SMB42T page 381	SMB46L page 382	SMB46S page 382
	SMB46U page 382	SMH241F page 402					
Q45 page 146 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMB30UR page 380	SMBAMS30P page 384
	SMBAMS30RA page 385						
OMNI-BEAM™ page 159 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMB30UR page 380	SMBAMS30P page 384
	SMBAMS30RA page 385						
Q60 page 165 	SMBAMSQ60IP page 386	SMBAMSQ60P page 387	SMBQ60 page 396				
D10 page 172 	DIN-35-... page 375	SMBR55F01 page 399	SMBR55FRA page 399				

 More on next page

Banner Bracket Selection Chart (cont'd)

Sensor		Used With							
D12 page 178		DIN-35-... page 375	SMBR55F01 page 379	SMBR55FRA page 399					
R55F page 183		DIN-35-... page 375	SMBR55F01 page 399	SMBR55FRA page 399					
FI22 page 186		N/A							
LX page 212		SMBLX page 390	SMBLXR page 391						
SLM page 216		N/A							
SL10/SL30 page 219		SMBSL page 400							
C-GAGE® SLC1 page 222		N/A							
R58E page 225		SMB55A page 382	SMB55F page 383	SMB55RA page 383	SMB55S page 383				
QC50/QCX50 page 228		SMBQC50 page 396							
QL50/QL55 page 230		SMB55A page 382	SMB55F page 383	SMB55RA page 383	SMB55S page 383				
OTB/LTB/STB page 234		SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385	
L-GAGE® LT3 page 244		SMBAMSLT3IP page 386	SMBAMSLT3P page 386	SMBLT31 page 389	SMBLT32 page 389	SMBLT3IP page 390			
L-GAGE® LT7 page 248		SMBLT7 page 390	SMBLT7F page 390						
L-GAGE® LG5/LG10 page 252		SMBLG page 389	SMBLGA page 389						
L-GAGE® Q50 page 256		SMBQ50 page 395							
U-GAGE® QT50U page 262		SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385		

BRACKETS

CABLES

RETROREFLECTORS

ENCLOSURES/
LENS SHIELDS

MISCELLANEOUS

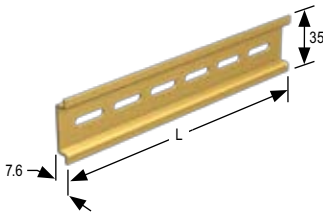
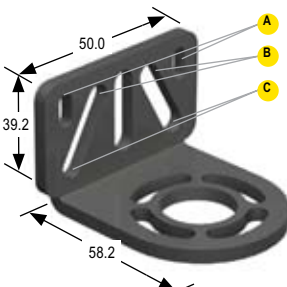
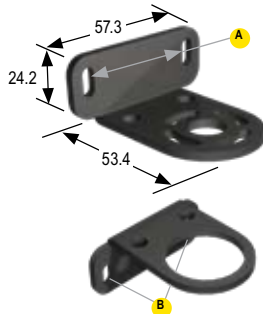
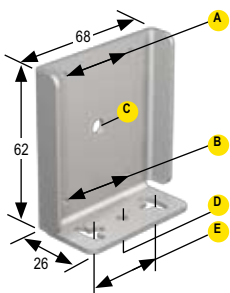
Banner Bracket Selection Chart

Sensor	Used With						
U-GAGE® S18U page 266 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378
	SMB30SK page 380	SMB312PD page 381	SMBAMS18P page 384	SMBAMS18RA page 384			
QS18U page 269 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378
	SMB30SK page 380	SMB30SUS page 380	SMB312PD page 381	SMB312S page 381	SMB46A page 381	SMB46L page 382	SMB46S page 382
	SMB46U page 382	SMBAMS18P page 384	SMBAMS18RA page 384	SMBQS18A page 397	SMBQS18RA page 397	SMBQS18Y page 398	SMH241F page 402
U-GAGE® T30U page 272 	SMB1815SF page 376	SMB30A page 378	SMB30FA page 379	SMBAMS30P page 384	SMBAMS30RA page 385		
U-GAGE® Q45U page 276 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMB30UR page 380	SMBAMS30P page 384
	SMBAMS30RA page 385						
U-GAGE® Q45UR page 280 	SMB18A page 377	SMB18FA page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378	SMB30A page 378
	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMB30SK page 380	SMB30UR page 380	SMB312PD page 381
	SMBAMS18P page 384	SMBAMS18RA page 384	SMBAMS30P page 384	SMBAMS30RA page 385			
U-GAGE® T18U page 284 	SMB1815SF page 376	SMB18A page 377	SMB18FA page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378
	SMB30SK page 380	SMB312PD page 381	SMBAMS18P page 384	SMBAMS18RA page 384	SMBT18Y page 400		
A-GAGE® EZ-ARRAY™ page 288 	EZA-MBK-20 page 375						
A-GAGE® MINI-ARRAY® page 291 	DIN-35-... page 375	MSMB-3 page 375					
T-GAGE® M18T page 303 	SMB18A page 377	SMB18FA page 377	SMB18FM page 377	SMB18SF page 378	SMB18UR page 378	SMB30SK page 380	SMB312PD page 381
	SMB46A page 381	SMBAMS18P page 384	SMBAMS18RA page 384				
R-GAGE™ QT50R page 306 	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30RA page 385	
EZ-LIGHT™ K50 page 346 	SA-K50A18 page 376	SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384
	SMBAMS30PL52 page 384	SMBAMS30PL52R page 385	SMBAMS30RA page 385	SMBAMS30RLJ page 385	SMBAMS30RLS page 385		
EZ-LIGHT™ K80 page 346 	SMBDX80DIN page 387						

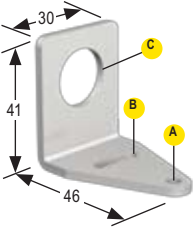
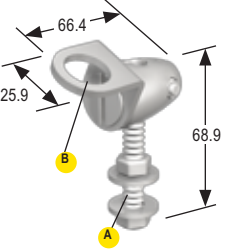
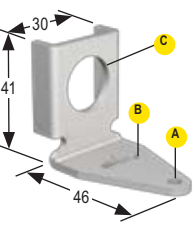
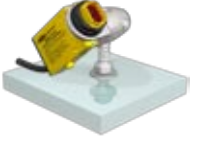
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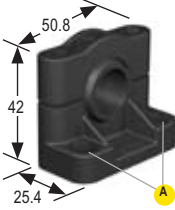
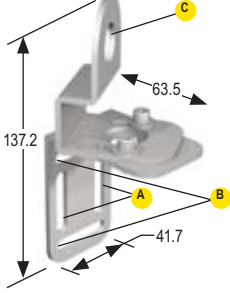
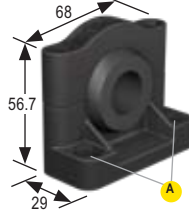
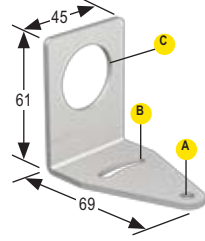
Banner Bracket Selection Chart (cont'd)

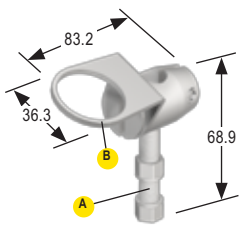
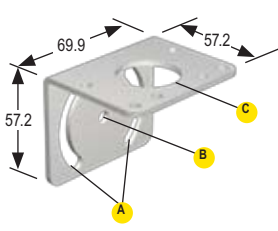
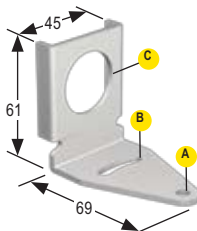
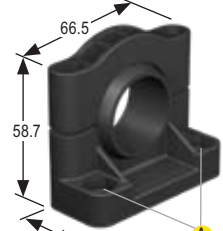
Sensor	Used With							
EZ-LIGHT™ VTB page 358		SMB30A page 378	SMB30FA page 379	SMB30MM page 379	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384	SMBAMS30PL52 page 384
		SMBAMS30PL52R page 385	SMBAMS30RA page 385	SMBAMS30RLJ page 385	SMBAMS30RLS page 385			
EZ-LIGHT™ PVA page 354		SMBPVA1 page 391	SMBPVA2 page 391	SMBPVA.. page 392	SMBPVA..A page 392	SMBPVA..AB page 392	SMBPVA..C page 392	SMBPVA6 page 392
		SMBPVA7 page 393	SMBPVA8 page 393	SMBPVA9 page 393				
EZ-LIGHT™ PVD page 351		SMBPVA1 page 391	SMBPVA11 page 391	SMBPVA2 page 391	SMBPVA..C page 392	SMBPVA6 page 392	SMBPVA7 page 393	SMBPVA8 page 393
		SMBPVA9 page 393	SMBPVD..A page 394	SMBPVD..AB page 394				
EZ-LIGHT™ T8L page 361		SMB8MM page 383						
EZ-LIGHT™ T18/M18 page 361		SMB1815SF page 376	SMB18A page 377	SMB18FA page 377	SMB18Q page 377	SMB18SF page 378	SMB18UR page 378	SMB3018SC page 378
		SMB30SK page 380	SMB312PD page 381	SMBAMS18P page 384	SMBAMS18RA page 384	SMBT18Y page 400		
EZ-LIGHT™ T30/K50L page 361		SMB1815SF page 376	SMB30A page 378	SMB30FA page 379	SMB30MM page 329	SMB30Q page 379	SMB30SC page 379	SMBAMS30P page 384
		SMBAMS30PL52R page 385	SMBAMS30PL52 page 384	SMBAMS30RA page 385	SMBAMS30RLJ page 385	SMBAMS30RLS page 385		
EZ-LIGHT™ K80L page 361		SMBDX80DIN page 387						
SureCross™ DX80/DX85/DX70 page 335		SMBDX80DIN page 387						

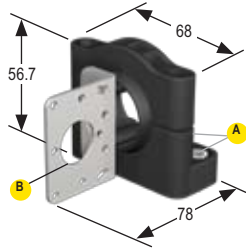
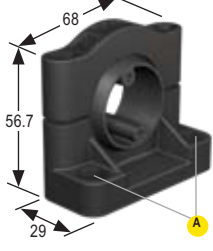
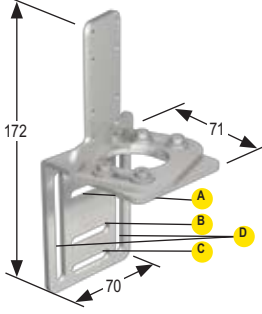
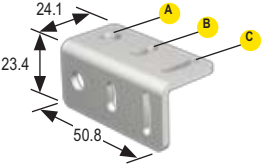
DIN-35..	EZA-MBK-20	MSMB-3	RMB50								
											
All measurements in mm	All measurements in mm	All measurements in mm	All measurements in mm								
<table><tr><th>Model</th><th>Length (L)</th></tr><tr><td>DIN-35-70</td><td>70</td></tr><tr><td>DIN-35-105</td><td>105</td></tr><tr><td>DIN-35-140</td><td>140</td></tr></table>	Model	Length (L)	DIN-35-70	70	DIN-35-105	105	DIN-35-140	140	Hole center spacing: A = 44.4, B = 20.0, C = 40.0 Hole size: A = 10.2 x 5.4, B = 27.6 x 7.0, C = 25.0 x 7.0	Hole center spacing: A, B = 44.5 Hole size: A, B = 10.2 x 4.8	Hole center spacing: A, B = 34.0, A to B = 52.0, E = 26.0 Hole size: A, B = ø 0.5, C = ø 6.3, D = ø 4.5, E = 13.8 X 4.5
Model	Length (L)										
DIN-35-70	70										
DIN-35-105	105										
DIN-35-140	140										
Hole center spacing: 35.1 Hole size: 25.4 x 5.3 • Available in 70, 105 & 140 mm lengths	• Two-bracket kit for one emitter or receiver • Adapter brackets for mounting to engineered/slotted aluminum framing such as 80/20™ and Unistrut™	• Two-bracket replacement kit for the emitter or receiver • 11-ga. cold-rolled steel with black corrosion-resistant zinc chromate finish	• Protective mounting bracket for retroreflective targets • 14-ga. 316 stainless steel • Stainless steel M3 x 0.5 hardware included								
Sensors	Sensors	Sensors	Round Targets								
											
Used with	Used with	Used with	Used with								
D10 D12 R55F	EZ-ARRAY	High-Resolution MINI-ARRAY MINI-ARRAY	BRT-50D BRT-50R								
Controllers			Square Targets								
											
Used with			Used with								
MINI-ARRAY High-Resolution MINI-ARRAY			BRT-2X2								
			Rectangular Targets								
											
			Used with								
			BRT-60X40C								

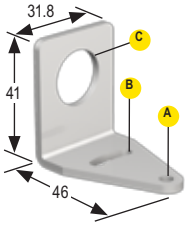
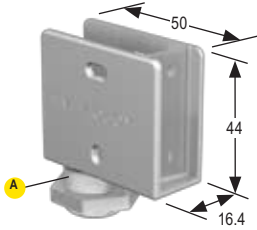
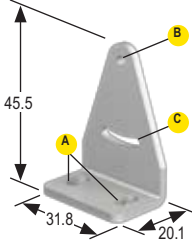
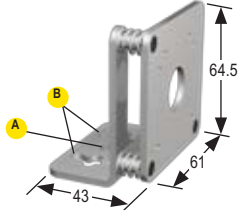
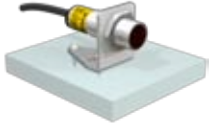
376 More information online at bannerengineering.com

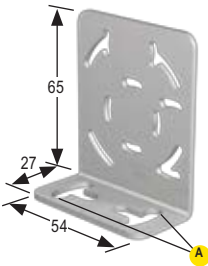
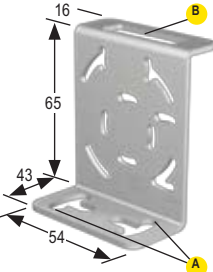
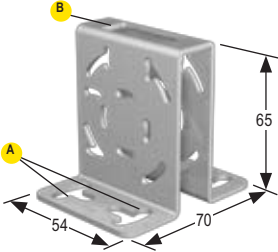
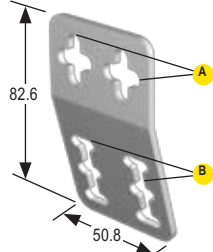
SMB18A	SMB18FA	SMB18FM	SMB18Q
			
All measurements in mm	All measurements in mm	All measurements in mm	All measurements in mm
Hole center spacing: A to B = 24.2 Hole size: A = Ø 4.6, B = 17.0 x 4.6, C = Ø 18.5	A = 3/8 - 16 x 50.8 Hole size: B = Ø 18.1	N/A	Hole center spacing: A to B = 24.2 Hole size: A = Ø 4.6, B = 17.0 x 4.6, C = Ø 19.0
- Right-angle mounting bracket with a curved slot for versatile orientation 12-ga. stainless steel, 18 mm sensor mounting hole - Clearance for M4 (#8) hardware	- Swivel bracket with tilt and pan movement for precision adjustment 18 mm sensor mounting hole 12-ga. 304 stainless steel	- Two-piece thermoplastic through-mount bracket - Mounting nut (M22 x 1.5) and outer flange (M22 x 1.5 external, M18 x 1 internal)	- Right-angle flanged bracket 18 mm sensor mounting hole 12-ga. stainless steel
Barrel Mount	Barrel Mount	Barrel Mount	Barrel Mount
			
Used with	Used with	Used with	Used with
QS18 MINI-BEAM M18 S18 T18 T-GAGE M18T S18U	QS18U Q45UR M18C2 Q45UR S18C2 T18U EZ-LIGHT T18 EZ-LIGHT M18	QS18 M18 S18 T18	QS18 MINI-BEAM S18 M18 T18 S18U
	Q45UR S18C2 T18U T-GAGE M18T EZ-LIGHT M18 EZ-LIGHT T18	T-GAGE M18T S18U QS18U	QS18U Q45UR S18C2 Q45UR M18C2 T18U EZ-LIGHT T18 EZ-LIGHT M18
Base Mount	Bracket-to-Bracket		Base Mount
			
Used with	Used with		Used with
Q25	SMBQS18A SMBQS18Y		Q25
	Base Mount		
			
	Used with		
	Q25		

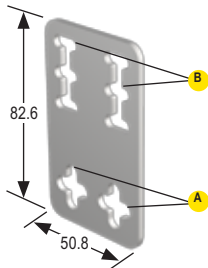
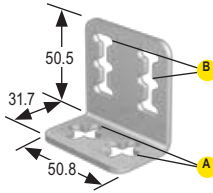
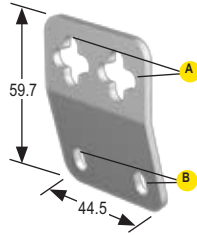
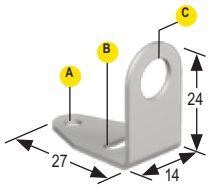
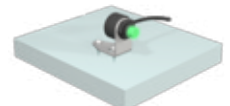
SMB18SF	SMB18UR	SMB3018SC	SMB30A
			
All measurements in mm	All measurements in mm	All measurements in mm	All measurements in mm
Hole center spacing: A = 36.0 Hole size: A = $\varnothing$ 5.3	Hole center spacing: A = 25.4, B = 46.7 Hole size: A , B = 6.9 x 32.0, C = $\varnothing$ 18.3	Hole center spacing: A = 50.8 Hole size: A = $\varnothing$ 7.0	Hole center spacing: A to B = 40.0 Hole size: A = $\varnothing$ 6.3, B = 27.3 x 6.3, A = $\varnothing$ 30.5
• 18 mm swivel bracket with M18 x 1 internal thread • Black thermoplastic polyester • Stainless steel swivel locking hardware included	• 2-piece universal swivel bracket • 300 series stainless steel • Stainless steel swivel locking hardware included • Mounting hole for 18 mm sensor	• 18 mm swivel side or barre mount bracket • Black reinforced thermoplastic polyester • Stainless steel swivel locking hardware included	• Right-angle bracket with curved slot for versatile orientation • Clearance for M6 (1/4") hardware • Mounting hole for 30 mm sensor • 12-ga. stainless steel
Barrel Mount	Barrel Mount	Barrel Mount	Barrel Mount
			
Used with	Used with	Used with	Used with
QS18 MINI-BEAM S18 M18 T18 T-GAGE M18T S18U QS18U Q45UR S18C2 Q45UR M18C2 T18U EZ-LIGHT T18 EZ-LIGHT M18	QS18* MINI-BEAM S18 M18 T18 T-GAGE M18T S18U QS18U* Q45UR S18C2 Q45UR M18C2 T18U EZ-LIGHT T18 EZ-LIGHT M18	M18/S18/T18 S18U Q45UR S18C2 Q45UR M18C2 T18U EZ-LIGHT T18	QS30 SM30/SMI30 S30 T30 T30U EZ-LIGHT T30
Base Mount	Base Mount	Side Mount	Base Mount
			
Used with	Used with	Used with	Used with
Q25	Q25	QS18 MINI-BEAM QM42/QMT42 QS18U	Q40 Q45 OMNI-BEAM OTB/LTB VTB STB Q45U Q45UR QT50R QT50U K50 EZ-LIGHT K50L
	* Contact factory to verify compatibility with integral QD models.	Base Mount	
			
		Used with	
		Q25	

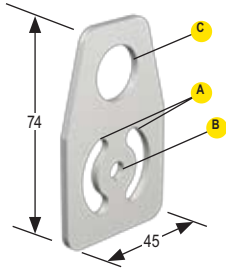
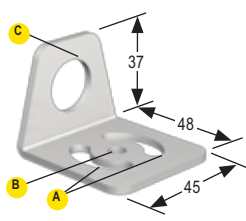
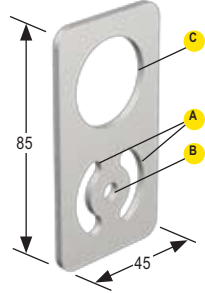
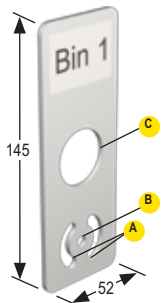
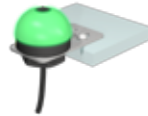
SMB30FA		SMB30MM		SMB30Q		SMB30SC	
							
All measurements in mm		All measurements in mm		All measurements in mm		All measurements in mm	
A = 3/8 -16 x 50.8 Hole size: B = $\varnothing$ 30.1		Hole center spacing: A = 51.0, A to B = 25.4 Hole size: A = 42.6 x 7.0, B = $\varnothing$ 6.4, B = $\varnothing$ 30.1		Hole center spacing: A to B = 40.0 Hole size: A = $\varnothing$ 6.3, B = 13.1 x 6.3, A = $\varnothing$ 30.1		Hole center spacing: A to B = 50.8 Hole size: A = $\varnothing$ 7.0	
- Swivel bracket with tilt and pan movement for precision adjustment - Mounting hole for 30 mm sensor 12-ga. 304 stainless steel		12-ga. stainless steel bracket with curved mounting slots for versatility and orientation - Clearance for M6 (1/4") hardware - Mounting hole for 30 mm sensor		- Right-angle flanged mounting bracket with curved slot for versatile orientation 12-ga. stainless steel - Mounting hole for 30 mm sensor		- Swivel bracket with 30 mm mounting hole for sensor - Black reinforced thermoplastic polyester - Stainless steel mounting and swivel locking hardware included	
Barrel Mount		Barrel Mount		Barrel Mount		Barrel Mount	
							
Used with		Used with		Used with		Used with	
QS30 SM30/SMI30 S30	T30 T30U EZ-LIGHT T30	QS30 S30 SM30/SMI30	EZ-LIGHT T30 T30	QS30 SM30/SMI30 S30	T30 EZ-LIGHT T30	QS30 SM30/SMI30 S30	T30 EZ-LIGHT T30
Base Mount		Base Mount		Base Mount		Base Mount	
							
Used with		Used with		Used with		Used with	
Q40 Q45 Q45U Q45UR QT50U OMNI-BEAM	OTB/LTB VTB STB K50 QT50R EZ-LIGHT K50L	Q40 Q45 OMNI-BEAM OTB/LTB VTB STB	QT50U Q45U Q45UR QT50R K50 EZ-LIGHT K50L	Q40 Q45 OMNI-BEAM OTB/LTB VTB STB	Q45U Q45UR K50 EZ-LIGHT K50L	Q40 Q45 OMNI-BEAM OTB/LTB VTB STB	QT50U Q45U Q45UR QT50R K50 EZ-LIGHT K50L

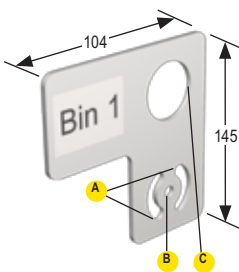
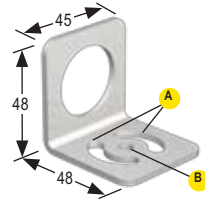
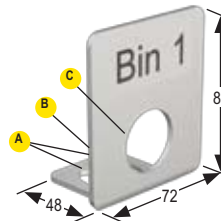
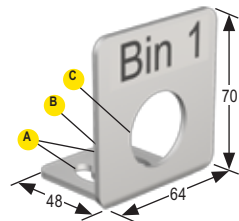
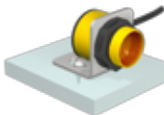
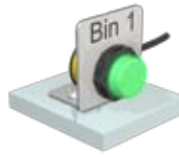
SMB30SK	SMB30SUS	SMB30UR	SMB312B
 All measurements in mm Hole center spacing: A to B = 50.8 Hole size: A = $\varnothing$ 7.0, B = $\varnothing$ 18.0 - Flat-mount swivel bracket with extended range of motion - Black reinforced thermoplastic polyester and 316 stainless steel - Stainless steel swivel locking hardware included	 All measurements in mm Hole center spacing: A to B = 50.8 Hole size: A = $\varnothing$ 7.0 - Side-mount swivel bracket with extended range of motion - Black reinforced thermoplastic polyester - Stainless steel swivel locking hardware included	 All measurements in mm Hole center spacing: A to B = 31.8, B to C = 19.0, A to C = 50.8, D = 50.8 Hole size: A, B, C = 6.9 x 32.0, D = 73 x 6.9 2-piece universal swivel bracket for limit-switch style sensors 300 series stainless steel - Stainless steel swivel locking hardware included	 All measurements in mm Hole center spacing: A to B = 17.3, B to C = 17.7, A to C = 35.0 Hole size: A = $\varnothing$ 6.9, B = 4.3 x 10.5, C = 3.1 x 15.2 - Right-angle - Stainless steel base mounting bracket - Includes mounting foot
Barrel Mount	Side Mount	Side Mount	Base Mount
 Used with QS18 MINI-BEAM S18/M18/T18 T18U S18U QS18U Q45UR S18C2 Q45UR M18C2 EZ-LIGHT T18 EZ-LIGHT M18 T-GAGE M18T	 Used with QS18 MINI-BEAM QM42/QMT42 QS18U	 Used with Q45 OMNI-BEAM Q45U Q45UR	 Used with MINI-BEAM
Base Mount			
 Used with Q25			
Side Mount			
 Used with QM42/QMT42			

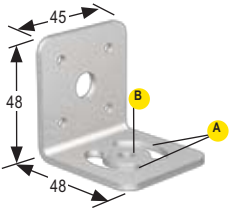
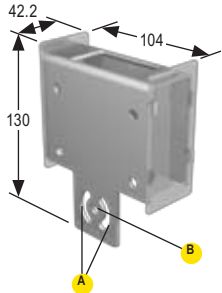
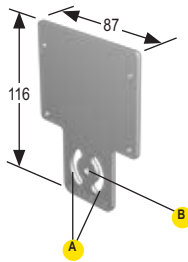
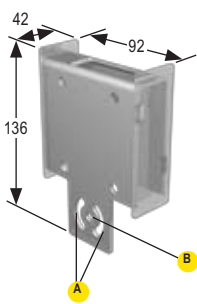
SMB312PD	SMB4050YL	SMB42T	SMB46A
 All measurements in mm Hole center spacing: A to B = 24.2 Hole size: A = $\varnothing$ 4.6, B = 17.0 x 4.6, A = $\varnothing$ 18.5 • 18 mm mounting hole for sensor • Stainless steel barrel-mounting bracket NOTE: Not for use with plastic fiber optic sensors	<i>Coming soon!</i>  All measurements in mm A = $\varnothing$ 18.0 • Heavy-duty die-cast bracket for industrial protection • Replaceable window for use with some sensor models • M18 vertical mounting option * Nut and lock washer included	 All measurements in mm Hole center spacing: A = 20.3, B to C = 5.1 Hole size: A = 4.3 x 7.5, B = $\varnothing$ 3.0, C = 3.0 x 15.3 • Stainless steel 2-axis side-mounting bracket • Nut strap included for replacing two M3 mounting nuts	 All measurements in mm Hole center spacing: A to B = 18.5, B = 30.5 Hole size: A = $\varnothing$ 6.6, B = 7.1 x 20.3 • 2-piece 12-ga. stainless steel bracket assembly with precision sensor alignment adjustment • 2 mm hex key included
Barrel Mount	Base Mount	Side Mount	Barrel Mount
 Used with QS18 MINI-BEAM S18 M18 T18 S18U T-GAGE M18T QS18U Q45UR S18C2 Q45UR M18C2 T18U EZ-LIGHT T18 EZ-LIGHT M18	 Used with QS18 (except AF)	 Used with QM42/QMT42	 Used with QS18 Lasers S18 Laser Emitter QS18U T-GAGE M18T
Base Mount			Side Mount
 Used with Q25			 Used with PicoDot

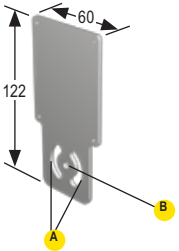
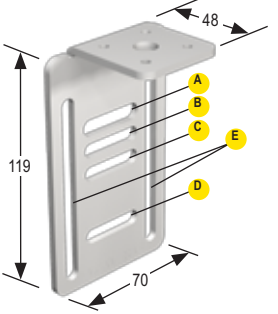
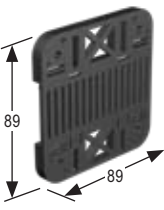
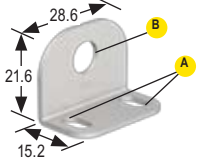
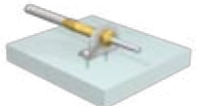
SMB46L		SMB46S		SMB46U		SMB55A	
 All measurements in mm Hole center spacing: A = 16.0 Hole size: A = 16.5 x 18.7 • Right-angle • L bracket • 14-ga. 316 stainless steel		 All measurements in mm Hole center spacing: A = 16.0 Hole size: A = 16.5 x 18.7, B = 34.0 x 10.0 • Right-angle • S bracket • 14-ga. 316 stainless steel		 All measurements in mm Hole center spacing: A = 16.0 Hole size: A = 16.5 x 18.7, B = 34.0 x 13.0 • Right-angle • U bracket for sensor protection • 14-ga. 316 stainless steel		 All measurements in mm Hole center spacing: A = 24.1, B = 27.9 Hole size: A = 12.7 x 11.4, B = 24.8 x 7.6 • 15° offset bracket • 12-ga. stainless steel	
Side Mount		Side Mount		Side Mount		Side Mount	
 Used with		 Used with		 Used with		 Used with	
QS18 MINI-BEAM QS30	PicoDot QM42/QMT42 QS18U	QS18 MINI-BEAM QS30	PicoDot QM42/QMT42 QS18U	QS18 MINI-BEAM PicoDot	QM42 QS18U	R58E QL55	

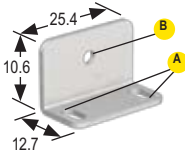
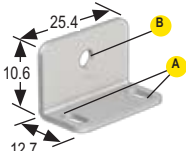
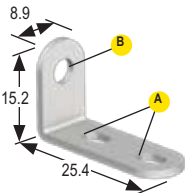
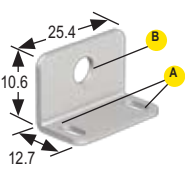
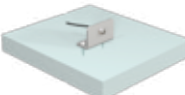
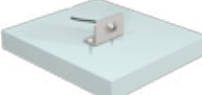
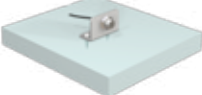
SMB55F	SMB55RA	SMB55S	SMB8MM
 All measurements in mm Hole center spacing: A = 24.1, B = 27.9 Hole size: A = 12.7 x 11.4, B = 24.8 x 7.6 • Flat-mount bracket • 12-ga. stainless steel	 All measurements in mm Hole center spacing: A = 24.1, B = 27.9 Hole size: A = 12.7 x 11.4, B = 24.8 x 7.6 • Right-angle bracket • 12-ga. stainless steel	 All measurements in mm Hole center spacing: A = 30.5, B = 28.0 Hole size: A = 12.7 x 11.4, B = 5.2 x 8.9 • 15° offset bracket • 12-ga. stainless steel	 All measurements in mm Hole center spacing: A to B = 14.0 Hole size: A = Ø 3.5, B = 8.3 x 3.5, C = Ø 8.4 • Right-angle bracket • 300 series stainless steel
Side Mount	Side Mount	Side Mount	Barrel Mount
 Used with R58E QL55	 Used with R58E QL55	 Used with R58E QL55	 Used with T8 IT23S (Glass Fiber) BT23S (Glass Fiber) EZ-LIGHT T8L

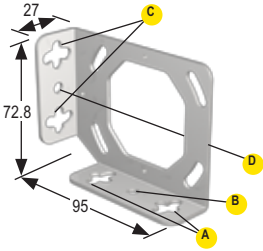
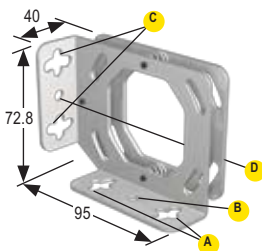
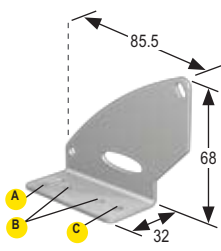
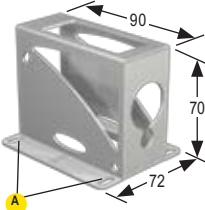
SMBAMS18P		SMBAMS18RA		SMBAMS30P		SMBAMS30PL52	
 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = 6.5, C = 19.0 - Flat SMBAMS series bracket with 18 mm hole for mounting sensors - Articulation slots for 90+° rotation 12-ga. 300 series stainless steel		 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = 6.5, C = 19.0 - Right-angle SMBAMS series bracket with 18 mm hole for mounting sensors - Articulation slots for 90+° rotation 12-ga. 300 series stainless steel		 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = 6.5, C = 31.0 - Flat SMBAMS series bracket 30 mm hole for mounting sensors - Articulation slots for 90+° rotation 12-ga. 300 series stainless steel		 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = 6.5, C = 31.0 - Flat bracket with 70 x 40 mm label - Flat SMBAMS series bracket 30 mm hole for mounting sensors - Articulation slots for 90+° rotation 12-ga. cold rolled stainless steel	
Barrel Mount		Barrel Mount		Barrel Mount		Barrel Mount	
 Used with		 Used with		 Used with		 Used with	
QS18 MINI-BEAM S18 M18 T18 T-GAGE M18T S18U	T18U Q45UR S18C2 Q45UR M18C2 QS18U EZ-LIGHT T18 EZ-LIGHT M18	QS18 MINI-BEAM S18 M18 T18 T-GAGE M18T S18U	T18U QS18U Q45UR S18C2 Q45UR M18C2 EZ-LIGHT T18 EZ-LIGHT M18	QS30 S30 SM30/SMI30	T30 T30U EZ-LIGHT T30	EZ-LIGHT T30	
				Base Mount		Base Mount	
				 Used with		 Used with	
				Q40 Q45 OMNI-BEAM OTB/LTB VTB STB	QT50R QT50U Q45U Q45UR K50 EZ-LIGHT K50L	VTB K50 EZ-LIGHT K50L	

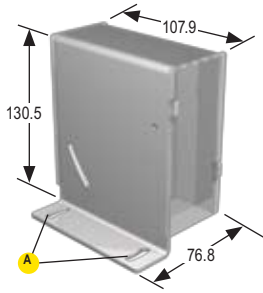
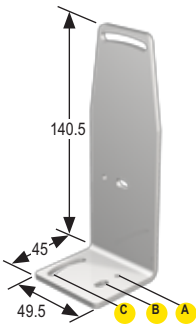
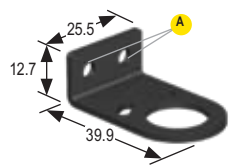
SMBAMS30PL52R	SMBAMS30RA	SMBAMS30RLJ	SMBAMS30RLS
 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = $\varnothing$ 6.5, C = $\varnothing$ 31.0 • Space for 60 x 58 mm next to 30 mm mounting hole • Flat SMBAMS series bracket with 30 mm hole for mounting sensors • Articulation slots for 90+° rotation • 12-ga. cold rolled stainless steel	 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = $\varnothing$ 6.5, C = $\varnothing$ 31.0 • Right-angle SMBAMS series bracket • 30 mm hole for mounting sensors • Articulation slots for 90+° rotation • 12-ga. cold rolled stainless steel	 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = $\varnothing$ 6.5, C = $\varnothing$ 31.0 • Right-angle bracket with 70 x 40 mm space for label • Right-angle SMBAMS series bracket with 30 mm hole for mounting sensor • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = $\varnothing$ 6.5, C = $\varnothing$ 31.0 • Right-angle SMBAMS series bracket with 30 mm hole for mounting sensor • 62 x 26 mm space for label • Articulation slots for 90+° rotation • 12-ga. cold rolled stainless steel
Barrel Mount	Barrel Mount	Barrel Mount	Barrel Mount
 Used with EZ-LIGHT T30	 Used with QS30 S30 SM30/SMI30 T30 T30U EZ-LIGHT T30	 Used with EZ-LIGHT T30	 Used with EZ-LIGHT T30L
Base Mount	Base Mount	Base Mount	Base Mount
 Used with VTB K50 EZ-LIGHT K50L	 Used with Q40 Q45 OMNI-BEAM OTB/LTB VTB STB Q45U Q45UR QT50U QT50R K50 EZ-LIGHT K50L	 Used with VTB K50 EZ-LIGHT K50L	 Used with VTB K50 EZ-LIGHT K50L

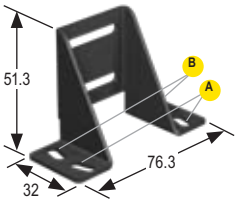
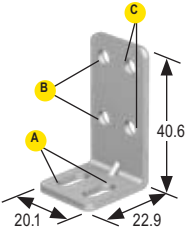
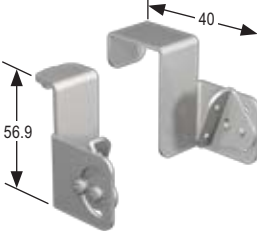
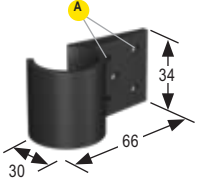
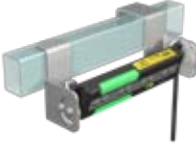
SMBAMSBRA	SMBAMSLT3IP	SMBAMSLT3P	SMBAMSQ60IP
 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5 • Right-angle base piece for SMBAMS series of versatile mounting hardware • Four point hole pattern to integrate with articulation slots in SMBAMS series brackets • 12-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5 • Industrial protection SMBAMS series bracket for LT3 with replaceable window • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A = 26.0, B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5 • Flat SMBAMS series bracket for mounting LT3 • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A = 26.0, B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5 • Industrial protection SMBAMS series bracket for Q60, with protection and replaceable window • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel
Bracket-to-Bracket	Side Mount	Side Mount	Side Mount
 Used with	 Used with	 Used with	 Used with
SMBAMSBRA* SMBAMS18P SMBAMS18RA SMBAMS30P SMBAMS30PL52 SMBAMS30PL52R SMBAMS30RLJ	SMBAMS30RLS SMBAMS30RA SMBAMSLT3IP SMBAMSLT3P SMBAMSQ60IP SMBAMSQ60P	LT3	Q60
* Multiple SMBAMSBRA base brackets can be integrated together to allow for additional points of articulation			

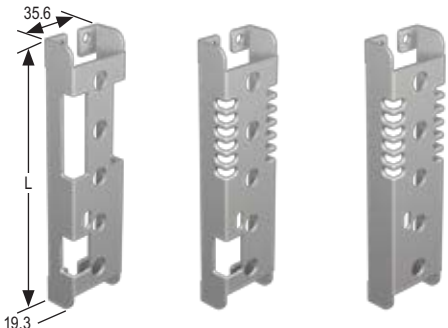
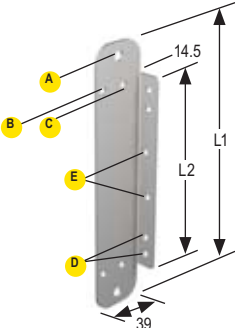
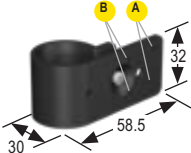
SMBAMSQ60P	SMBAMSRAB	SMBDX80DIN	SMBF
 All measurements in mm Hole center spacing: A = 26.0, B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5 • Flat SMBAMS series bracket for mounting Q60 • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A to B = 12.0, B to C = 11.0, A to C = 23.0, A to D = 55.0, E to E = 50.8 Hole size: A, B, C, D = 6.9 x 32.0 E = 6.9 x 89.4 • 10-ga. (3.4 mm) cold-rolled steel with zinc finish • Retrofit WORLD-BEAM QS30 in place of MULTI-BEAM, MAXI-BEAM, Q45, OMNI-BEAM and VALU-BEAM sensors	 All measurements in mm N/A • Black reinforced thermoplastic • Bracket for mounting on 35 mm DIN rail	 All measurements in mm Hole center spacing: A = 19.1 Hole size: A = 8.0 x 4.6, A = ø 8.3 • Right-angle bracket for glass fiber optic with 5/16" 24 threaded tip • 18-ga. stainless steel
Side Mount	Base Mount	Side Mount	Barrel Mount
 Used with Q60	 Used with QS30* * Requires a SMBAMS30RA bracket (sold separately)	 Used with K80 EZ-LIGHT K80L DX80 DX70 DX85 DX81 DX90 DX91	 Used with Glass fiber with 5/16" - 24 threaded tip

SMBFP3	SMBFP4	SMBFP4N	SMBFP6
 All measurements in mm Hole center spacing: A = 19.1 Hole size: A = 6.5 x 3.6, B = $\varnothing$ 3.2 • Right-angle bracket for glass fiber optic with 5/16" 24 threaded tip • 18-ga. stainless steel	 All measurements in mm Hole center spacing: A = 19.1 Hole size: A = 6.5 x 3.6, B = $\varnothing$ 4.2 • Right-angle bracket for plastic fiber optic with 4 mm threaded tip • 18-ga. stainless steel	 All measurements in mm Hole center spacing: A = 12.0 Hole size: A = 4.8 x 5.0, B = $\varnothing$ 4.2 • Low-profile right-angle bracket for plastic fiber optics with 4 mm threaded tip • 18-ga. stainless steel	 All measurements in mm Hole center spacing: A = 19.1 Hole size: A = 6.5 x 3.6, B = $\varnothing$ 6.2 • Low-profile right-angle bracket for plastic fiber optics with 6 mm threaded tip • 18-ga. stainless steel
Barrel Mount	Barrel Mount	Barrel Mount	Barrel Mount
 Used with Plastic fiber with M3 tip	 Used with Plastic fiber with M4 tip	 Used with Plastic fiber with M4 tip	 Used with Plastic fiber with M6 tip

SMBLG	SMBLGA	SMBLT31	SMBLT32
 All measurements in mm Hole center spacing: A = 56.0, A to B = 20.0, C = 44.5, C to D = 14.0 Hole size: A = 19.1 x 14.2, B = $\varnothing$ 6.3, C = 19.3 x 15.3, D = $\varnothing$ 6.3 • LG series sensor mounting bracket • 304 stainless steel	 All measurements in mm Hole center spacing: A = 56.0, A to B = 20.0, C = 44.5, C to D = 14.0 Hole size: A = 19.1 x 14.2, B = $\varnothing$ 6.3, C = 19.3 x 15.3, D = $\varnothing$ 6.3 • LG series adjustable bracket assembly • Precision adjustment screws • 304 stainless steel	 All measurements in mm Hole center spacing: A to C = 47.5, B to B = 24.1 Hole size: A = 13.2 x 5.0, B = $\varnothing$ 4.0, C = $\varnothing$ 5.0 • Right-angle bracket • 300 stainless steel	 All measurements in mm Hole center spacing: A = 80.0 Hole size: A = 5.0 x 12.0 • Full protection bracket • 300 stainless steel • Mounting hardware included
Side Mount	Side Mount	Side Mount	Side Mount
 Used with LG5 LG10	 Used with LG5 LG10	 Used with LT3	 Used with LT3

SMBLT3IP	SMBLT7	SMBLT7F	SMBLX
 All measurements in mm Hole center spacing: A = 82.5 Hole size: A = 6.0 x 20.5 • Protective bracket with replaceable window • Stainless steel construction • Includes replacement windows Side Mount  Used with LT3	 All measurements in mm Hole center spacing: A to C = 31.8 Hole size: A = $\varnothing$ 3.1, B = 5.0 x 9.0, C = 5.2 x 28.0 • Right-angle bracket • 300 stainless steel • Fine-adjust accessory available (model SMBLT7F) Side Mount  Used with LT7	 All measurements in mm N/A • Fine-adjust accessory for bracket SMBLT7 • Mounting hardware included • SMBLT7 required (sold separately) • Cold rolled steel Bracket-to-Bracket  Used with LT7* *Shown mounted on SMBLT7 (sold separately)	 All measurements in mm Hole center spacing: A = 12.7 Hole size: A = $\varnothing$ 4.3 • End-cap brackets; set of 2 • Zinc-plated cold rolled steel Base Mount  Used with LX

SMBLXR	SMBPVA1	SMBPVA11	SMBPVA2
 All measurements in mm Hole center spacing: A, B = 63.5, A to B = 10.2 Hole size: A, B = 5.2 x 11.6 • Back-mount bracket for secure one-end mounting • Zinc-plated cold rolled steel	 All measurements in mm Hole center spacing: A = 10.2, B to B = 18.0, B to C = 10.2 Hole size: A = 10.0 x 4.8, B, C = $\varnothing$ 4.6 • Right-angle bracket for PVA and PVD products • 303 stainless steel • Replacement brackets included with sensors	 All measurements in mm NA • Pair of two-piece swivel brackets for mounting sensor to 5/16" metal rack system • Articulation slot for $\pm 90^\circ$ rotation • May be used with SMBPVA..C bracket	 All measurements in mm Hole center spacing: A = 18.8 Hole size: A = $\varnothing$ 4.4 • Set of 4 molded brackets • Snaps onto standard 28 mm diameter pipe • 2 required per PVA or PVD sensor
Side Mount	Side Mount	Side Mount	Side Mount
 Used with LX	 Used with PVA PVD	 Used with PVD	 Used with PVA PVD
		Bracket-to-Bracket	Bracket-to-Bracket
		 Used with SMBPVD..A SMBPVD..AB	 Used with SMBPVA.. SMBPVA..A SMBPVA..AB SMBPVD..A SMBPVD..AB

SMBPVA..., SMBPVA..A, SMBPVA..AB					SMBPVA..C			SMBPVA6				
												
All measurements in mm					All measurements in mm			All measurements in mm				
Models	DIP Switch Access	Light Protected	Length (L)	Used With	Models	L1	L2	Hole center spacing: A, B, A to B = 18.0 Hole size: A = Ø 3.2				
SMBPVA5	Yes	No	139.7	PVA100	SMBPVA5C	188.7	139.5	Hole center spacing: A to C = 20.0, B to C = 18.0, D = 13.0, E = 32.0 Hole size: A = Ø 7.3, B, C, D, E = Ø 5.2 • Set of 4 molded brackets • Brackets clamp onto 28 mm pipe • Request data sheet p/n 64900 for more information				
SMBPVA5A	Yes	Yes										
SMBPVA5AB	No	Yes										
SMBPVA10	Yes	No	268.2	PVA225	• Back-mounted bracket for mounting to SMBPVA7 or SMBPVA8 brackets • Cold-rolled steel with zinc finish							
SMBPVA10A	Yes	Yes										
SMBPVA10AB	No	Yes										
SMBPVA13	Yes	No	343.3	PVA300				Side Mount  Used with PVA PVD Bracket-to-Bracket  Used with <table><tr><td>SMBPVA.. SMBPVA..A SMBPVA..AB</td><td>SMBPVD.. SMBPVD..A SMBPVD..AB</td></tr></table>			SMBPVA.. SMBPVA..A SMBPVA..AB	SMBPVD.. SMBPVD..A SMBPVD..AB
SMBPVA.. SMBPVA..A SMBPVA..AB	SMBPVD.. SMBPVD..A SMBPVD..AB											
SMBPVA13A	Yes	Yes										
SMBPVA13AB	No	Yes										
SMBPVA16	Yes	No	418.2	PVA375	Side Mount  Used with PVA PVD Bracket-to-Bracket  Used with <table><tr><td>SMBPVA7* SMBPVA8* SMBPVA... SMBPVA...A</td><td>SMBPVA...AB SMBPVD...A SMBPVD...AB</td></tr></table> *Sensor must be mounted to a SMBPVA..C bracket.						SMBPVA7* SMBPVA8* SMBPVA... SMBPVA...A	SMBPVA...AB SMBPVD...A SMBPVD...AB
SMBPVA7* SMBPVA8* SMBPVA... SMBPVA...A	SMBPVA...AB SMBPVD...A SMBPVD...AB											
SMBPVA16A	Yes	Yes										
SMBPVA16AB	NO	Yes										

Protects sensor from impact; provides DIP-switch and/or indicator light exposure (depending on model)

Heavy-duty cold-rolled steel-zinc finish

May be used with SMBPVA..C for mounting to SMBPVA7 or SMBPVA8 brackets

Side Mount



Used with

PVA (see chart)

Bracket-to-Bracket



Used with

SMBPVA..2 SMBPVA..7*	SMBPVA..8* SMBPVA..C bracket
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*Protective bracket must be mounted to a SMBPVA..C bracket.

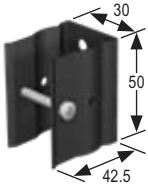
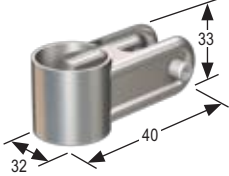
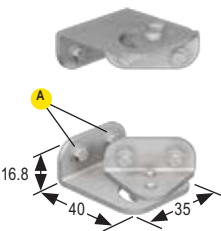
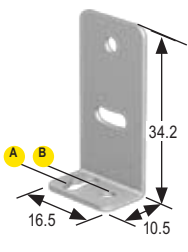
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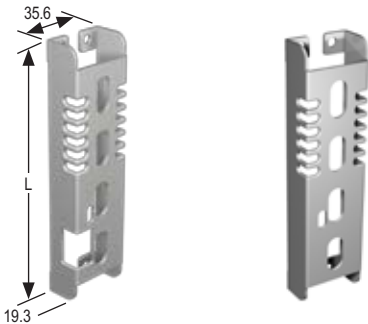
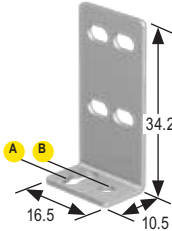
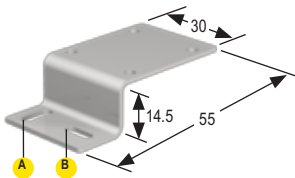
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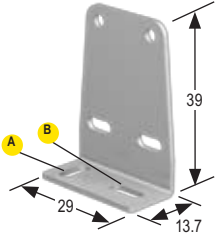
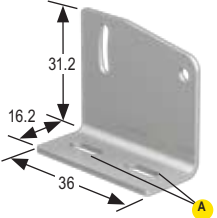
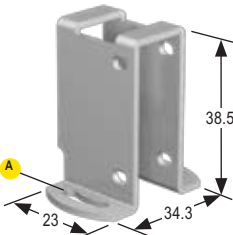
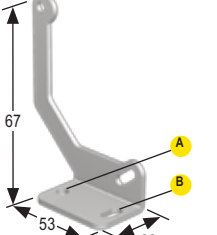
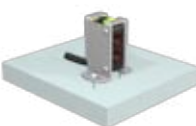
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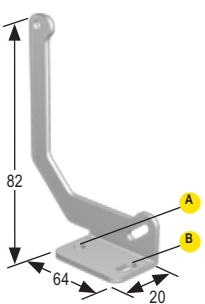
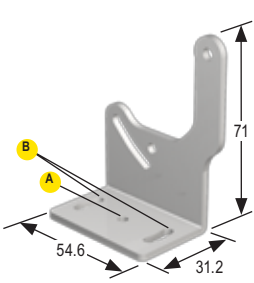
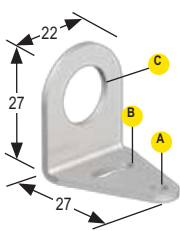
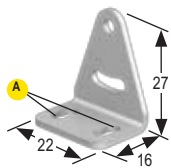
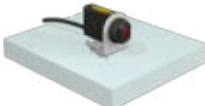
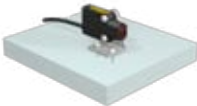
ENCLOSURES/
LENS SHIELDS

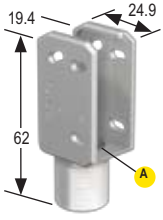
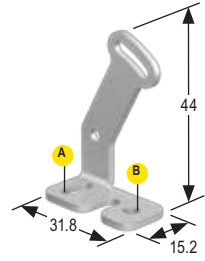
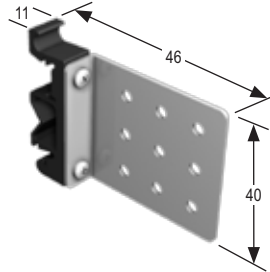
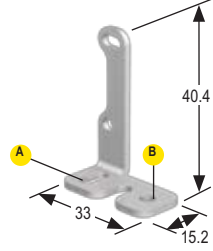
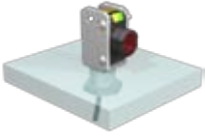
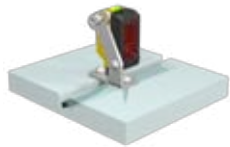
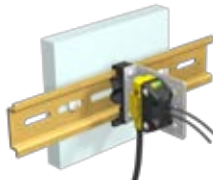
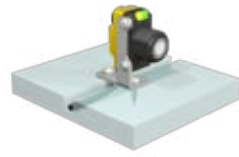
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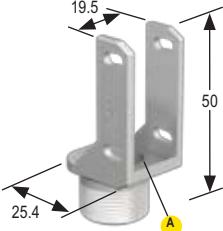
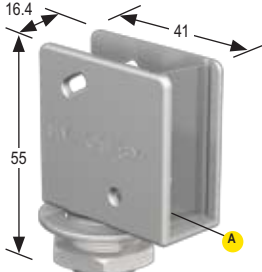
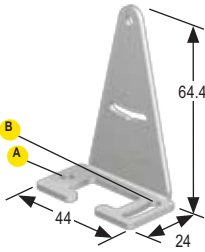
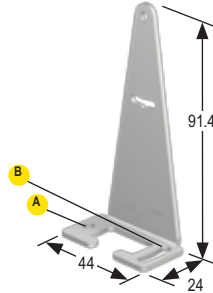
SMBPVA7	SMBPVA8	SMBPVA9	SMBQ12A
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
N/A	N/A	Hole center spacing: A = 18.0 Hole size: A = $\varnothing 5.0$	Hole center spacing: A to B = 7.6 Hole size: A = 3.5 x 8.1, B = $\varnothing 3.2$
• One-piece bracket for mounting to 28 mm (11/8") dia. pipe • Black-painted steel • Requires SMBPVA..C for mounting at an angle $\pm 90^\circ$	• Heavy-duty 2-part bracket mounts to 28 mm (11/8") dia. pipe • Cold-rolled steel with zinc finish • Requires SMBPVA..C for mounting	• Pair of 2-piece swivel brackets • Mount directly to sensor or to PVD/PVA protective brackets • Designed for mounting sensor to "look down"	• Adjustable right-angle bracket • 20-ga. 300 series stainless steel
Side Mount	Bracket to Bracket	Side Mount	Side Mount
 Used with	 Used with	 Used with	 Used with
PVA* PVD* SMBPVA5C SMBPVA10C	PVA* PVD* SMBPVA5C SMBPVA10C	PVA PVD	Q12
*Sensor must be mounted to SMBPVA..C bracket. (sold separately)	*Sensor must be mounted to SMBPVA..C bracket. (sold separately)	Bracket to Bracket	
		 Used with	
		SMBPVA... SMBPVA...A SMBPVA...AB SMBPVD...A SMBPVD...AB	

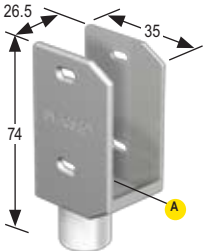
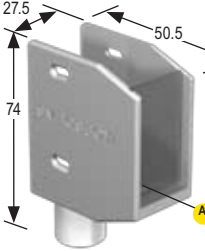
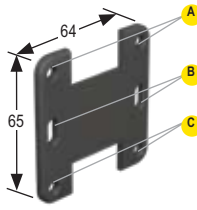
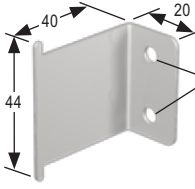
SMBPVD..A & SMBPVA..AB				SMBQ12T	SMBQ20H																
																					
All measurements in mm				All measurements in mm	All measurements in mm																
<table><tr><th>Models</th><th>DIP Switch Access</th><th>Length (L)</th><th>Used With</th></tr><tr><td>SMBPVD100A</td><td>Yes</td><td rowspan="2">140</td><td rowspan="2">PVD100</td></tr><tr><td>SMBVD100AB</td><td>No</td></tr><tr><td>SMBPVD225A</td><td>Yes</td><td rowspan="2">269</td><td rowspan="2">PVD225</td></tr><tr><td>SMBPVD225AB</td><td>No</td></tr></table>				Models	DIP Switch Access	Length (L)	Used With	SMBPVD100A	Yes	140	PVD100	SMBVD100AB	No	SMBPVD225A	Yes	269	PVD225	SMBPVD225AB	No	Hole center spacing: A to B = 7.6 Hole size: A = 3.5 x 8.1, B = ø 3.2	Hole center spacing: A to B = 20.0 Hole size: A = 2.8 x 9.3, B = 8.4 x 4.5
Models	DIP Switch Access	Length (L)	Used With																		
SMBPVD100A	Yes	140	PVD100																		
SMBVD100AB	No																				
SMBPVD225A	Yes	269	PVD225																		
SMBPVD225AB	No																				
- Heavy-duty protection brackets; DIP-switch access - Cold-rolled steel with zinc finish - May be used with SMBPVA..C for mounting to SMBPVA7 or SMBPVA8 brackets				- Right-angle bracket 20-ga. 300 series stainless steel	- Sensor horizontal flange mount ± 10° swivel - Stainless steel																
Side Mount				Side Mount	Side Mount																
																					
Used with				Used with	Used with																
PVD100 (see chart)				Q12	Q20																
Bracket-to-Bracket																					
																					
Used with																					
SMBPVA9 SMBPVA2 SMBPVA..C SMBPVA7* SMBPVA8*																					
* Protective bracket must be mounted to a SMBPVA..C bracket.																					

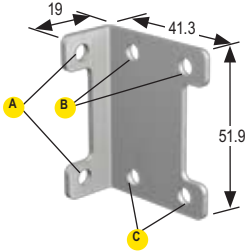
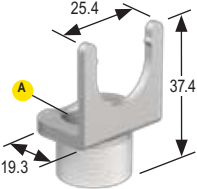
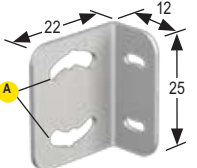
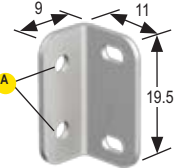
SMBQ20L	SMBQ20LV	SMBQ20U	SMBQ50
 All measurements in mm Hole center spacing: A to B = 20.0 Hole size: A = 2.8 x 9.3, B = 8.4 x 4.5 • Right-angle bracket • $\pm 5^\circ$ tip, $\pm 5^\circ$ swivel • Stainless steel	 All measurements in mm Hole center spacing: A = 12.0 Hole size: A = $\varnothing 3.0 \times 9.4$ • Right-angle bracket • $\pm 10^\circ$ tip • Stainless steel	 All measurements in mm Hole center spacing: A = 26.5 Hole size: A = 3.0 x 12.6 • Protective bracket • $\pm 22.5^\circ$ swivel • Stainless steel	 All measurements in mm Hole center spacing: A to B = 24.1 Hole size: A = $\varnothing 4.5$, B = 8.4 x 4.5 • Right-angle bracket • 14-ga. 304 stainless steel
Side Mount	Side Mount	Side Mount	Side Mount
 Used with Q20	 Used with Q20	 Used with Q20	 Used with Q50

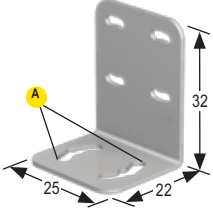
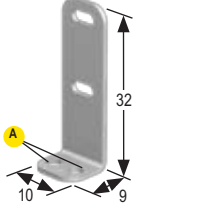
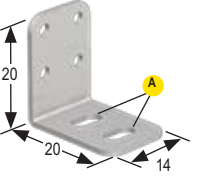
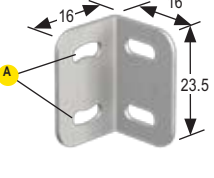
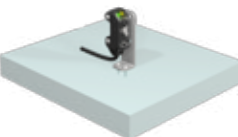
SMBQ60	SMBQC50	SMBQS12PD	SMBQS12S
 All measurements in mm Hole center spacing: A to B = 24.1 Hole size: A = $\varnothing$ 4.5, B = 8.4 x 4.5 • Right-angle bracket • 14-ga. 304 stainless steel	 All measurements in mm Hole center spacing: A to B = 18.0, B to B = 36.0 Hole size: A = $\varnothing$ 4.0, B = 4.0 x 13.3 • Multi-directional stainless steel right-angle bracket • Variety of mounting options	 All measurements in mm Hole center spacing: A to B = 14.0 Hole size: A = $\varnothing$ 3.5, B = 3.5 x 10.6, C = $\varnothing$ 13.0 • Right-angle, nose-mount bracket • 16-ga. 300 series stainless steel	 All measurements in mm Hole center spacing: A = 14.0 Hole size: A = 3.5 x 7.0 • Right-angle side-mount bracket • 16-ga. 300 series stainless steel
Side Mount	Side Mount	Barrel Mount	Side Mount
 Used with Q60	 Used with QC50 QCX50	 Used with MINI-BEAM2 M12	 Used with MINI-BEAM2

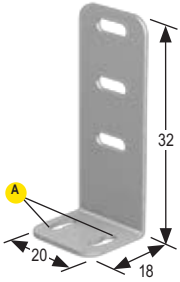
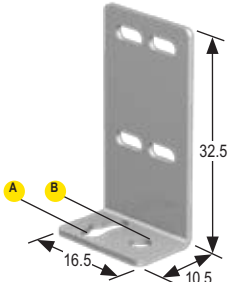
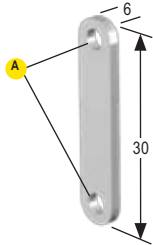
SMBQS18A	SMBQS18AF	SMBQS18DIN	SMBQS18RA
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole size: A = $\varnothing$ 16.4	Hole center spacing: A to B = 20.3 Hole size: A = 4.3 x 9.4, B = $\varnothing$ 4.3	N/A	Hole center spacing: A to B = 20.3 Hole size: A = 4.3 x 9.4, B = $\varnothing$ 4.3
• Wrap-around protection bracket • Die-cast bracket • Base fits 18 mm threaded hole • Metal hex nut, lock washer and grommet included	• Right-angle mounting bracket • 14-ga. 304 stainless steel	• Right-angle bracket assembly for mounting on 35 mm DIN rail • 300 series stainless steel and glass filled nylon; zinc-plated screws	• Right-angle mounting bracket • 14-ga. 304 stainless steel
Side Mount	Side Mount	Side Mount	Side Mount
 Used with	 Used with	 Used with	 Used with
QS18 QS18U	QS18AF (Only)	QS18	QS18 (except QS18AF) QS18U

SMBQS18Y	SMBQS18YL	SMBQS30L	SMBQS30LT
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole size: A = $\varnothing$ 16.4	Hole size: A = $\varnothing$ 16.3	Hole center spacing: A to B = 35.0 Hole size: A = $\varnothing$ 4.3, B = 4.25 x 16.3	Hole center spacing: A to B = 35.0 Hole size: A = $\varnothing$ 4.3, B = 4.25 x 16.3
• Die-cast bracket for 18 mm holes • Includes metal hex nut and lock washer • Allows $\pm 8^\circ$ for cabled sensors	• Heavy-duty die-cast bracket for industrial protection • Replaceable window • M18 vertical mount-option • Nut and lock washer included	• Right-angle bracket for cable sensor models • Clearance for M4 (#8) hardware • $\pm 12^\circ$ tilt adjustment • 14-ga. stainless steel	• Tall right-angle bracket for QD models • $\pm 8^\circ$ tilt adjustment • 14-ga. stainless steel
Side Mount	Side Mount	Side Mount	Side Mount
 Used with	 Used with	 Used with	 Used with
QS18 QS18U	QS18AF (Class 2 Laser Only)	QS30	QS30 with integral QDs

SMBQS30Y	SMBQS30YL	SMBR55F01	SMBR55FRA
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole size: A = $\varnothing$ 16.4	Hole size: A = $\varnothing$ 16.4	Hole center spacing: A, B, C = 50.8, A to B, B to C = 25.3 Hole size: A, C = $\varnothing$ 5.6, B = 11.3 x 5.6	Hole center spacing: A = 20.0 Hole size: A = $\varnothing$ 5.4
• Heavy-duty die-cast bracket • M18 vertical mount option • $\pm 8^\circ$ tilt adjustment with cabled units • Includes nuts and lock washer	• Heavy-duty die-cast bracket designed for industrial protection • Replaceable window • M18 vertical mount option • Includes nuts and lock washer	• Flat-mounting bracket • Eliminates need for DIN rail • Molded PBT polyester	• 19-ga. stainless steel • Side-mounting bracket • Eliminates need for DIN rail
Side Mount	Side Mount	Side Mount	Side Mount
 Used with	 Used with	 Used with	 Used with
QS30	QS30 (DC only)	R55F D10 D12	R55F D10 D12

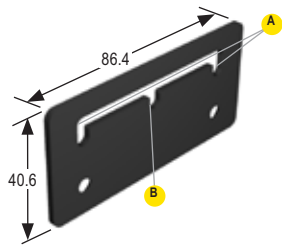
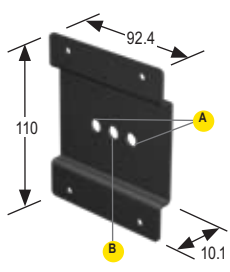
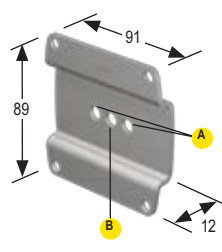
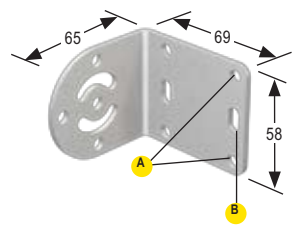
SMBSL	SMBT18Y	SMBVS1S	SMBVS1SC
 All measurements in mm Hole center spacing: A = 40.0, B, C = 21.6, B to C = 39.9 Hole size: A, B, C = $\varnothing$ 5.5 • Right-angle bracket • 304 stainless steel • Hardware included	 All measurements in mm Hole size: A = $\varnothing$ 15.3 • Die-cast bracket for 18 mm holes • Includes metal hex nut • For use with Euro-style QD connectors and cabled versions	 All measurements in mm Hole center spacing: A = 16.8 Hole size: A = 3.5 x 12.3 • Short right-angle bracket • 18-ga. stainless steel	 All measurements in mm Hole center spacing: A = 10.0 Hole size: A = $\varnothing$ 2.8 • Short right-angle bracket • 18-ga. stainless steel
Side Mount	Barrel Mount	Side Mount	Side Mount
 Used with SL10 SL30	 Used with T18 T18U EZ-LIGHT T18	 Used with VS1	 Used with VS1

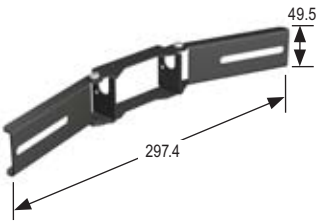
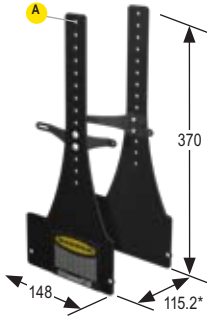
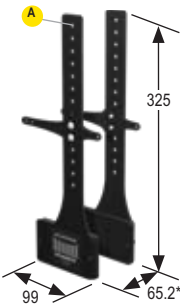
SMBVS1T	SMBVS1TC	SMBVS2RA	SMBVS3S
 All measurements in mm Hole center spacing: A = 16.8 Hole size: A = 3.5 x 12.3 • Tall right-angle bracket • Stainless steel	 All measurements in mm Hole center spacing: A = 5.5 Hole size: A = Ø 2.8 • Tall right-angle compact bracket • 300 stainless steel	 All measurements in mm Hole center spacing: A = 80. Hole size: A = 3.2 x 6.0 • Right-angle bracket • Stainless steel	 All measurements in mm Hole center spacing: A = 13.5 Hole size: A = 3.2 x 7.7 • Right-angle bracket • 300 stainless steel
Side Mount	Side Mount	Side Mount	Side Mount
 Used with VS1	 Used with VS1	 Used with VS2	 Used with VS3

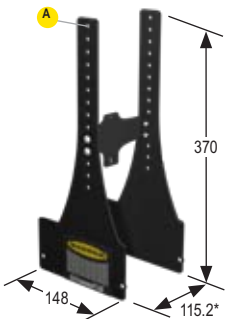
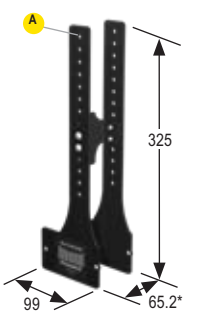
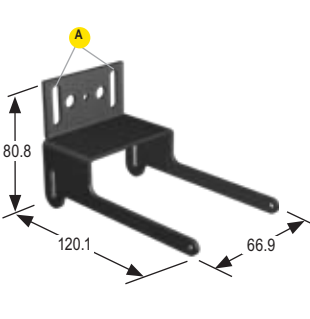
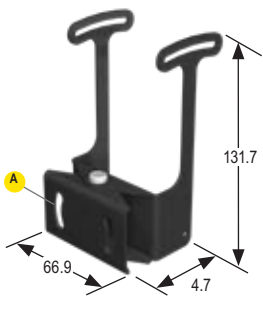
SMBVS3T	SMBVS4SRA	SMH241F
 All measurements in mm Hole center spacing: A = 13.5 Hole size: A = 3.2 x 7.7	 All measurements in mm Hole center spacing: A to B = 8.5 Hole size: A = 3.2 x 8.0, B = Ø 3.2	 All measurements in mm Hole center spacing: A = 24.0 Hole size: A = Ø 2.5
• Tall right-angle bracket • 300 stainless steel	• Tall right-angle bracket • 300 series stainless steel	• Nut strap replaces two M3 mounting nuts and washers • 16-ga. stainless steel
Side Mount	Side Mount	Side Mount
 Used with VS3	 Used with VS4	 Used with QS18 MINI-BEAM QM42/QMT42 QS18U

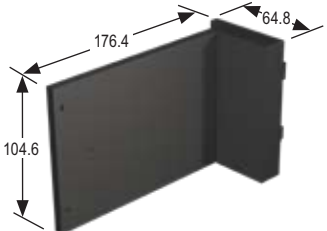
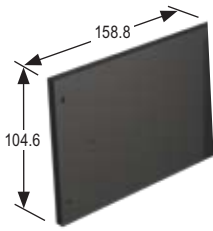
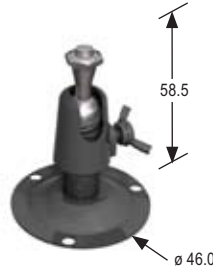
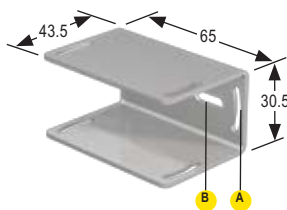
Banner Vision Bracket Selection Chart

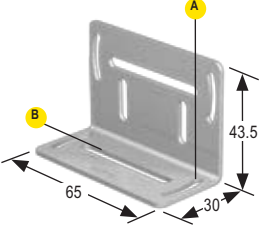
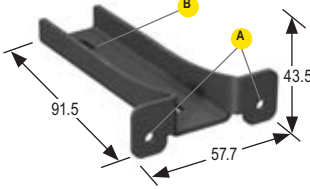
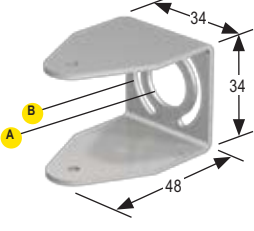
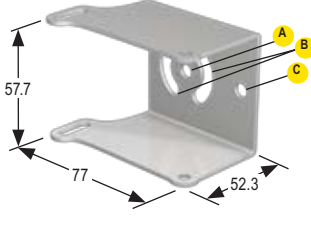
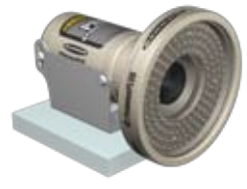
Sensor	Used With							
PresencePLUS® Pro page 312 	SMBPPDH page 407	SMBPPDE page 407	SMBPPLU page 407	SMBPPRA page 408	SMBPPU page 408	SMBPPSU page 408		
PresencePLUS® P4 page 312 	SMBP4RAB page 406	SMBP4RAS page 406						
Ring Lights page 324 	SMBPPRHI page 408							
Backlights Page 326 	SMBABM page 404	SMBACM page 404						
Area Lights page 327 	SMBABM page 404	SMBACM page 404	SMBASCM page 404	SMBP42ASM page 405	SMBP4ASM page 405	SMBVL62X62S page 409	SMBVL62X62RA page 409	
Spot Lights page 328 	SMBP4ASM page 405	SMBPPLK page 407						
Linear Array page 329 	SMBLASRA page 404							
Tubular Fluorescent page 329 	SMBWFTLS page 409	SMBWFTLR page 409						
On-Axis Lights page 330 	SMBP40AL100 page 405	SMBP40AL50 page 405	SMBPPOAL100 page 406	SMBPPOAL50 page 406				

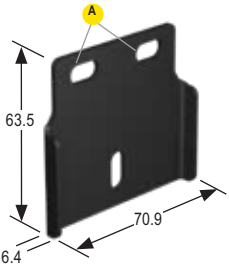
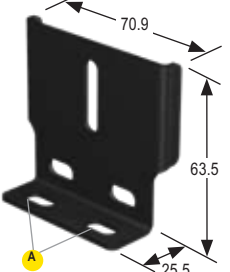
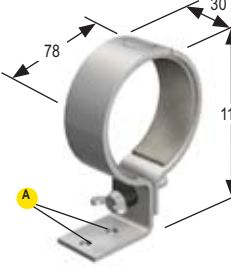
SMBABM	SMBACM	SMBASCM	SMBLASRA
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole center spacing: A = 61.0, A to B = 30.5 Hole size: A, B = 9.1 x 2.3	Hole center spacing: A = 30.0, A to B = 15.0 Hole size: Ø 5.0	Hole center spacing: A = 25.4, A to B = 12.7 Hole size: A = Ø 5.0	Hole center spacing: A, B, A to B = 45.0 Hole size: A = Ø 6.6, B = 6.6 x 12.4
• Surface-mount bracket for mounting light from front • Black corrosion-resistant zinc finish • Hardware included	• Column-mount bracket with locking pivot • Black corrosion-resistant zinc finish • Hardware included	• Column-mount bracket with locking pivot • 316 Stainless steel • Stainless steel hardware included	• Right-angle metal bracket • May be used individually or two used in combination • 316 stainless steel bracket and hardware
 Used with	 Used with	 Used with	 Used with
Area Lights (80 x 80 mm) Backlights (70 x 70 mm)	Area Lights (80 x 80 mm) Backlights (70 x 70 mm) Note: Shown with optional SMBPPK6 mounting kit (see page 441).	Area Light (70 mm) Note: Shown with optional SMBPPK6 mounting kit (see page 441).	Sealed Linear Array

SMBP42ASM	SMBP4ASM	SMBP4OAL100	SMBP4OAL50
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
N/A	N/A	Hole center spacing: $\text{A} = 15.0$ Hole size: $\text{A} = \varnothing 5.3$	Hole center spacing: $\text{A} = 15.0$ Hole size: $\text{A} = \varnothing 5.3$
• For mounting two lights to P4 sensor housing • Black corrosion-resistant zinc finish • Hardware included	• For mounting light to P4 sensor housing • Black corrosion-resistant zinc finish • Hardware included	• For mounting On-Axis light to P4 housing • Centers lens on light opening • Black zinc-plated steel • Hardware included	• For mounting On-Axis light to P4 housing • Centers lens on light opening • Black zinc-plated steel • Hardware included
 Used with	 Used with	 Used with	 Used with
Area Light (80 x 80 mm)* Area Light (62 x 62 mm) Spot Lights	Area Light (80 x 80 mm)* Area Light (62 x 62 mm) Spot Lights	On-Axis (100 mm)	On-Axis (50 mm)
* Requires one SMBACM bracket with each light (see page 404)	* Requires one SMBACM bracket with each light (see page 404)	* Dimensions include 100 mm light (sold separately)	* Dimensions include 50 mm light (sold separately)

SMBPPOAL100	SMBPPOAL50	SMBP4RAB	SMBP4RAS
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole center spacing: A = 15.0 Hole size: A = $\varnothing$ 5.3	Hole center spacing: A = 15.0 Hole size: A = $\varnothing$ 5.3	Hole center spacing: A = 47.0 Hole size: A = 3.3 x 19.1	Hole center spacing: A = 43.5 Hole size: A = 6.8 x 2.5
• For mounting On-Axis light to <i>Pro</i> housing • Centers lens on light opening • Black zinc-plated steel • Hardware included	• For mounting On-Axis light to <i>Pro</i> housing • Centers lens on light opening • Black zinc-plated steel • Hardware included	• Heavy duty, black corrosion-resistant zinc finish • 8° of rotation on image-axis • Hardware included	• Right-angle swivel bracket • 70° rotation on image's x-axis and 20° on the y-axis • Black corrosion-resistant zinc finish • Hardware included
 Used with	 Used with	 Used with	 Used with
On-Axis 100 mm	On-Axis 50 mm	P4 (right-angle)	P4 (right-angle)
* Dimensions include 100 mm light (sold separately)	* Dimensions include 50 mm light (sold separately)		

SMBPPDE	SMBPPDH	SMBPPLK	SMBPPLU
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
N/A	N/A	N/A	Hole center spacing: A = 58.5, B = 30.0 Hole Size: A = 18.7 x 3.4, B = 14.3 x 4.4
• DIN-rail edge mounting bracket to save linear track space • Black ABS plastic • Hardware included	• DIN-rail flat mounting for easy viewing of LED's • Black ABS plastic • Hardware included	• 2" pivoting assembly	• Highly stable U-Shaped bracket • Bright corrosion-resistant finish • Hardware included
 Used with	 Used with	 Used with	 Used with
PresencePLUS Pro Controller	PresencePLUS Pro Controller	Spot Lights	PresencePLUS Pro Camera

SMBPPRA	SMBPPRHI	SMBPPU	SMBPPSU
 All measurements in mm Hole center spacing: A = 58.5 Hole Size: A = 18.7 x 3.4, B = 44.5 x 4.4 • Right-angle bracket with single-side mounting for difficult-to-access sites • Bright corrosion-resistant finish • Hardware included	 All measurements in mm Hole center spacing: A = 44.5, B = 52.3 Hole size: A = ø 3.8, B = 3.6 x 6.4 • Black anodized aluminum bracket • For mounting light to Pro camera • Hardware included	 All measurements in mm Hole center spacing: B = 25.0 Hole size: A = ø 16.0, B = 3.3 x 25.0 • U-Shaped swivel bracket for variable rotation • Bright corrosion-resistant finish • Hardware included	 All measurements in mm Hole center spacing: A to C = 31.8, B = 25.0 Hole size: A = ø 6.5, B = 20.2 x 7.0, C = ø 6.5 • 316 Stainless Steel • 10° of rotation on image's y-axis • Hardware included
 Used with PresencePLUS Pro Camera	 Used with Ring Light (70 mm)	 Used with PresencePLUS Pro Camera	 Used with Sealed PresencePLUS Pro Camera

SMBVLA62X62S	SMBVLA62X62RA	SMBWFTLS	SMBWFTLR
 All measurements in mm	 All measurements in mm	 All measurements in mm	 All measurements in mm
Hole center spacing: A = 36.4 Hole size: A = 13.1 x 6.6	Hole center spacing: A = 36.4 Hole size: A = 13.1 x 6.6	Hole center spacing: A = 27.0 Hole size: A = ø 6.5	Hole center spacing: A = 27.0 Hole size: A = ø 6.5
• Surface-mount bracket for mounting light from front • In-line bracket • 14-ga. steel, black zinc-plated	• For mounting a light at a right angle • 14-ga. steel, black zinc-plated	• In-line bracket • Mounts around light • Bright zinc-coated steel construction	• Right-angle bracket • Mounts around light • Bright zinc-coated steel construction
 Used with	 Used with	 Used with	 Used with
Area Lights (62 x 62 mm)	Area Lights (62 x 62 mm)	Tubular Fluorescent Lights	Tubular Fluorescent Lights