GSDA Accessories for GSD Series DC Drives – Selection & Specifications

SSDA-SK S22.00 IronHorse GSD series speed potentiometer kit, replacement, output up to input voitage, 5k ohm, 0.5W, For use with IGSD series DC drives. Includes potentiometer, knob, 0.100% data and mounting hardware. GSD - all SSDA-ACCDEC-4 \$27.00 IronHorse GSD series acceleration/deceleration module, for use with GSD4 series DC drives. GSD + axx-xC SSDA-AL-A \$64.00 IronHorse GSD series analog input module, 1-channel, current, isolated, input current signal range(s) of 4.20 m.A. GSD + all. SSDA-AL-AB \$202.01 IronHorse GSD series analog input module, 1-channel, current, isolated, input current signal range(s) of 4.20 m.A. All GSD drives except GSD8- 240-5C SSDA-AL-V4 \$106.00 IronHorse GSDA series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4.20 m.A, input voltage signal range(s) of 0.5 VDC, 0-250 VDC. GSD + 240-xC (240' open-frame) SSDA-AL-V4 \$106.00 IronHorse GSDA series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4.20 m.A, input voltage signal range(s) of 0.5 VDC, 0-250 VDC. All GSD4 drives except GSD8- 240-5C SSDA-AL-V4 \$105.00 IronHorse GSD8 series ommunication module, 1-channel, current/voltage, isolated, input current signal range(s) of 4.20 m.A, input voltage, signal range(s) of 0.5 VDC, 0-250 VDC. All GSD8 drives except GSD8- 240-5C SSDA-AL-V4 \$105.00 IronH	GSDA Accessories for GSD Series DC Drives					
S2DA-SK \$22.00 input voltage, 5k ohm, 0.5W. For use with all CSD series DC drives. Includes potentiometer, knob, 0.100% data and mouring hardware. GSD - all SSDA-ACCDEC-4 \$27.00 IronHorse GSD series analog input module, for use with GSD4 striss DC drives. GSD-4X-xXC (open-frame) GSD5240-10C (open-frame) GSD5240-10C (open-frame) GSD5240-10C (open-frame) GSD6404x-xXC (open-frame) CYDC (0-250 VDC. SSDA-AL-V4 \$106.00 IronHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. GSD4-240-xC (240' open-frame) SSDA-AL-V4 \$105.00 IronHorse GSD8 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. All GSD44x drives SSDA-CM-8 \$105.00 IronHorse GSD8 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. All GSD44x drives	Model	Price	Description	For Use With		
SSDA-AL-D2 \$27.00 series DC drives. US04-300-X2 SSDA-AL-A \$64.00 IronHorse GSD series analog input module, 1-channel, current, isolated, input Current signal range(s) of 4-20 mA. GSD4-24x-XC (open-frame) GSD6 (open-frame) GSD6 (open-frame) GSD6 (open-frame) GSD6 (open-frame) GSD6 (open-frame) CSD6 (open-frame). SSDA-AL-A8 \$202.00 IronHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD8 drives except GSD6-240-5C (2400 vpc-frame). SSDA-AL-V4 \$106.00 IronHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 GSD4-240-5C (2400 vpc-frame). SSDA-AL-V4 \$106.00 IronHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 GSD5-240-10C (open-frame). SSDA-AL-V5 \$105.00 IronHorse GSD series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 GSD5-240-10C (open-frame). SSDA-CM-8 \$155.00 IronHorse GSD series communication module, ASCII, 1 port, (1) RS-232/ All GSD8 drives except GSD8-240-5C SSDA-DP-D \$443.00 IronHorse GSD series figital potentiometer, 120/240 VAC input, voltage, ISD1 - all, GSD3 - all, GSD1 - all, GSD3 - all, GSD1 -	<u>GSDA-5K</u>	\$22.00	input voltage, 5k ohm, 0.5W. For use with all GSD series DC drives. Includes	GSD - all		
S3DA-AL-A \$64.00 Informations GSD series analog input module, 1-channel, current, isolated, input current signal range(s) of 4-20 mA. GSD5-240-10C (open-frame) GSD6 (open-frame) GSD6 (open-frame) GSD6.40-10C (open-frame) GSD6.40-10C (open-frame) Current, Analog Output 1-ohannel, current/oblage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD8 drives except GSD8-240-6C SSDA-AL-V4 \$106.00 InonHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD8 drives except GSD8-240-8C SSDA-AL-V4A \$106.00 InonHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4 drives SSDA-AL-V4A \$106.00 InonHorse GSD5 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4 drives GSDA_CM-8 \$105.00 InonHorse GSD5 series communication module, ASCII, 1 port, (1) RS-2327 All GSD8 drives except GSD8-240-5C GSDA_DP \$429.00 InonHorse GSD series figital potentiometer, 120/240 VAC input, voltage, GSD7 - 81 GSD1, GSD4(A), GSD5, GSD6, GSD7 GSDA_DP_D \$443.00 InonHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, Ordput: 1-channel, current/voltage, 120/240 VAC input, voltage, GSD7 - 81 GSD1 - 81, GSD3-24A-xxx (12-24V),	GSDA-ACCDEC-4	\$27.00		GSD4-xxx-xC		
S2DA-AL-A8 \$202.00 current, Analog Output: 1-channel, current, Discrete Output: 1-point, relay, (1) All GSD6 Unives eXD6 (SSD6-240-SC) S3DA-AL-V4 \$106.00 ironHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 GSD4-240-xC (240V open-frame) S3DA-AL-V4A \$106.00 ironHorse GSD4 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4A drives S3DA-AL-V4A \$106.00 ironHorse GSD5 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4A drives S3DA-AL-V5 \$105.00 ironHorse GSD5 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD8 drives except GSD8-240-10C (open-frame) S3DA-CM-8 \$155.00 IronHorse GSD series communication module, ASCII, 1 port, (1) RS-232/ NC 0-250 VDC. All GSD4 drives except GSD8-240-5C-0 and GSD8-240- S3DA-DP \$429.00 IronHorse GSD series digital potentiometer, 120/240 VAC input, bipolar/unipolar, NEMA 4X, aluminum housing. For use with multiple AC and DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD - all, GS	<u>GSDA-AI-A</u>	\$64.00		GSD5-240-10C (open-frame)		
SSDA-AI-V4 \$106.00 input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 C3D4-240-3C SSDA-AI-V4A \$106.00 isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4-240-3C SSDA-AI-V4A \$106.00 isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 All GSD4 Adrives SSDA-AI-V5 \$105.00 ironHorse GSD5 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. GSDA-AI-V5 \$105.00 ironHorse GSD8 series communication module, ASCII, 1 port, (1) RS-232/ All GSD8 drives except GSD8-240-5C-D and GSD8-240-5C-D and GSD8-240-5C GSDA-DP \$450.00 ironHorse GSD series digital potentiometer, 120/240 VAC input, voltage, GSD7 GSD1 - all, GSD3-24A-xox (12-24V), GSD4 - all, GSD5 - all, GSD7 - all GSDA-DP_D \$493.00 ironHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, Output: 1-channel, current/voltage, 100-1 all, GSD3-24A-xox (12-24V), GSD4 - all, GSD5 - all, GSD5 - all, GSD6 - all, GSD7 - all SSDA-DP_S \$410.00 ironHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, Output: 1-channel, current/voltage, 120/240 VAC operating voltage, 1P67, 1/8 DIN mount. GSD5 - all, GSD5 - all, GSD5 - all, GSD6 - all, GSD7 - all SSDA-MREV \$126.00 ironHo	GSDA-AI-A8	\$202.00	current, Analog Output: 1-channel, current, Discrete Output: 1-point, relay, (1)			
SSDA-AI-V4A \$106.00 isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of A:0 C, 0-250 VDC. All GSD4A drives SSDA-AI-V5 \$105.00 ironHorse GSD5 series analog input module, 1-channel, current/voltage, isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. GSD5-240-10C (open-frame) SSDA-CM-8 \$155.00 IronHorse GSD8 series communication module, ASCII, 1 port, (1) RS-232/ NC, 0-250 VDC. All GSD8 drives except GSD8- 240-5C SSDA-DP \$429.00 IronHorse GSD series digital potentiometer, 120/240 VAC input, bipolar/unipolar, NEMA 4X, aluminum housing. For use with multiple AC and DC drives. GSD1, GSD4(A), GSD5, GSD6, GSD7 SSDA-DP-D \$493.00 IronHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, NEMA 4X, IP67, aluminum housing. For use with multiple AC and DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - all SSDA-DP-S \$410.00 IronHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, 1ronHorse GSD series grant and reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD3- all, GSD4 - all, GSD7 - all SSDA-MREY \$126.00 IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives. GSD4 - all, GSD3 - all, GSD4 - all, GSD4 - all, GSD5 - all, GSD4 - all, GSD4 - all, GSD4 - all, GSD4 - all	<u>GSDA-AI-V4</u>	\$106.00	input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5			
SSDA-AI-V5 \$105.00 input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 VDC, 0-250 VDC. GSD5-240-10C (open-frame) SSDA-CM-8 \$155.00 IronHorse GSD8 series communication module, ASCII, 1 port, (1) RS-232/ 10C-D DC drives. All GSD8 drives except GSD8- 240-5C SSDA-DP \$429.00 IronHorse GSD series digital potentiometer, 120/240 VAC input, bipolar/unipolar, NEMA 4X, aluminum housing. For use with multiple AC and DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - all SSDA-DP-D \$493.00 IronHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, NEMA 4X, IP67, aluminum housing. For use with multiple AC and DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - all SSDA-DP-S \$410.00 IronHorse eignal conditioner, isolated, Input: 1-channel, current/voltage, 0.utput: 1-channel, current/voltage, 120/240 VAC operating voltage, IP67, 1/8 DIN mount. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD4 - all, GSD7 - all SSDA-MREV \$126.00 IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives. GSD4-4x-xC (open-frame) SSDA-HTSNK-4 \$42.00 IronHorse GSD series heatsink, for use with GSD4 series DC drives. GSD4-24A-xC (open-frame) SSDA-HTSNK-4 \$42.00 IronHorse GSD4A series heatsink, for use with GSD4 series DC drives. GSD4-24x-	GSDA-AI-V4A	\$106.00	isolated, input current signal range(s) of 4-20 mA, input voltage signal range(s) of All GSD4A drives			
SSDA-CM-8 \$155.00 RS-485 (R,I45) port(s). For use with IronHorse GSD8-240-5C-D and GSD8-240-5C All CSD6 drives except CSD6-240-5C GSDA-DP \$429.00 IronHorse GSD series digital potentiometer, 120/240 VAC input, bipolar/unipolar, NEMA 4X, aluminum housing. For use with multiple AC and DC drives. GSD1, GSD4(A), GSD5, GSD6, GSD7 GSDA-DP-D \$493.00 IronHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, NEMA 4X, IP67, aluminum housing. For use with multiple AC and DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD5 - all, GSD6 - all, GSD7 - all GSDA-DP-S \$410.00 IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives. GSD1 - all, GSD3-24A-xxx (12-24V), GSD4 - all, GSD5 - all, GSD5 - all, GSD6 - all, GSD7 - all GSDA-MREV \$126.00 IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives. GSD4-24-2X-XC (open-frame) GSDA-HTSNK-4 \$42.00 IronHorse GSD series heatsink, for use with GSD4 series DC drives. GSD4-24X-XC (open-frame) GSDA-HTSNK-4 \$42.00 IronHorse GSD series heatsink, for use with GSD4 series DC drives. GSD4-24X-XC (open-frame) GSDA-HTSNK-4 \$42.00 IronHorse GSDA series heatsink, for use with GSD4 series DC drives. GSD4-24X-XC (open-frame) GSDA-PU2E \$86.00 IronHor	<u>GSDA-AI-V5</u>	\$105.00	input current signal range(s) of 4-20 mA, input voltage signal range(s) of 0-5 GSD5-240-10C (ope			
SDA-DP\$429.00NEMA 4X, aluminum housing. For use with multiple AC and DC drives.GSD7GSDA-DP-D\$493.00IronHorse GSD series PID digital potentiometer, 120/240 VAC input, voltage, NEMA 4X, IP67, aluminum housing. For use with multiple AC and DC drives.GSD1 - all, GSD3-24A-xxx (S2-24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - allGSDA-DP-S\$410.00IronHorse signal conditioner, isolated, Input: 1-channel, current/voltage, Output: 1-channel, current/voltage, 120/240 VAC operating voltage, IP67, 1/8 DIN mount.GSD1 - all, GSD3-24A-xxx (S2-24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - allGSDA-MREV\$126.00IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives.GSD3 - all GSD3 - all GSD3 - all GSD3 - allGSDA-HTSNK-4\$42.00IronHorse GSD series heatsink, for use with GSD4 series DC drives.GSD4-24x-xC (open-frame)GSDA-HTSNK-4A\$25.00IronHorse GSD4A series heatsink, for use with IronHorse GSD4A-240-6C DC drives.All GSD4A drivesGSDA-PU2E\$86.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8All GSD8 drives and GSDA-DP-DGSDA-PU2E\$179.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8All GSD8 drives and GSDA-DP-D	<u>GSDA-CM-8</u>	\$155.00	RS-485 (RJ45) port(s). For use with IronHorse GSD8-240-5C-D and GSD8-240-			
SSDA-DP-D\$493.00Individual control of the contr	<u>GSDA-DP</u>	\$429.00				
SSDA-DP-S\$410.00IronHorse signal conditioner, isolated, input: 1-channel, current/voltage, Output: 1-channel, current/voltage, 120/240 VAC operating voltage, IP67, 1/8 DIN mount.(12–24V), GSD4 - all, GSD5 - all, GSD6 - all, GSD7 - allGSDA-MREV\$126.00IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives.GSD3 - all GSD4.4A - all GSD5 - all GSD4 - allGSDA-HTSNK-4\$42.00IronHorse GSD series heatsink, for use with GSD4 series DC drives.GSD4-24x-xC (open-frame)GSDA-HTSNK-4A\$25.00IronHorse GSD4A series heatsink, for use with IronHorse GSD4A-240-2C and GSD4-240-6C DC drives.All GSD4 drivesGSDA-PU2E\$86.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8 series DC drives. Mounting hardware and (3) magnets included.All GSD8 drives and GSDA-DP-DGSDA-PU2R\$179.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8All GSD8 drives and GSDA-DP-D	<u>GSDA-DP-D</u>	\$493.00	Information of the second series and blend of the second s			
GSDA-MREV\$126.00IronHorse GSD series manual reverse switch, 10A, field installable, screw terminals. For use with all GSD series DC drives.GSD4/4A - all GSD5 - all GSD4 - allGSDA-HTSNK-4\$42.00IronHorse GSD series heatsink, for use with GSD4 series DC drives.GSD4-24x-xC (open-frame)GSDA-HTSNK-4A\$25.00IronHorse GSD4A series heatsink, for use with IronHorse GSD4A-240-2C and GSD4-240-2C DC drives.All GSD4 drivesGSDA-PU2E\$86.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8 series DC drives. Mounting hardware and (3) magnets included.All GSD8 drives and GSDA-DP-DGSDA-PU2R\$179.00IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8All GSD8 drives and GSDA-DP-D	<u>GSDA-DP-S</u>	\$410.00	IronHorse signal conditioner, isolated, input: 1-channel, current/voltage, Output: (12–24V), GSD4 - all, GSD5 -			
SSDA-HTSNK-4A \$25.00 IronHorse GSD4A series heatsink, for use with IronHorse GSD4A-240-2C and GSD4A-240-6C DC drives. All GSD4A drives SSDA-PU2E \$86.00 IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8 series DC drives. Mounting hardware and (3) magnets included. All GSD8 drives and GSDA-DP-D SSDA-PU2R \$179.00 IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8 All GSD8 drives and GSDA-DP-D	<u>GSDA-MREV</u>	\$126.00		GSD4/4A - all GSD5 - all		
SDA-PU2E \$25.00 GSD4A-240-6C DC drives. All GSD4A drives GSDA-PU2E \$86.00 IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8 series DC drives. Mounting hardware and (3) magnets included. All GSD8 drives and GSDA-DP-D GSDA-PU2R \$179.00 IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8 All GSD8 drives and GSDA-DP-D	GSDA-HTSNK-4	\$42.00	IronHorse GSD series heatsink, for use with GSD4 series DC drives.	GSD4-24x-xC (open-frame)		
SSDA-PU2E \$86.00 diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8 series DC drives. Mounting hardware and (3) magnets included. All GSD8 drives and GSDA-DP-D GSDA-PU2R \$179.00 IronHorse encoder, 5-24 VDC, NPN open collector output, 1/10/20 ppr, 61mm diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8 All GSD8 drives and GSDA-DP-D	GSDA-HTSNK-4A	\$25.00		All GSD4A drives		
SDA-PU2R \$179.00 diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8 All GSD8 drives and GSDA-DP-D	GSDA-PU2E	\$86.00	diameter body, NEMA 12, IP52, 6ft cable length, pigtail. For use with GSD8	All GSD8 drives and GSDA-DP-D		
	<u>GSDA-PU2R</u>	\$179.00	diameter body, NEMA 3R, IP14, 6ft cable length, pigtail. For use with GSD8 All GSD8 drives and GSDA-DP-D			
IOTE: All GSDA Accessories are RoHS compliant.						

1-800-633-0405 For the latest price of the lat

<u>GSDA-5K</u>

For use with all GSD series DC drives

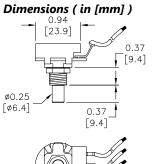
The GSDA-5K is a replacement potentiometer kit that can be used with IronHorse GSD series DC drives to control the speed of a DC motor. (All GSD series DC drives include a speed potentiometer.)

The kit includes the following:

- (1) 5kΩ potentiometer
- (3) pigtail wiring leads (8-1/2 in; 20 AWG)
- (1) adjustment knob
- (1) 0–100% dial
- (1) mounting nut and lock washer

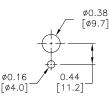
Wiring Connections





[31.7]

MOUNTING CUTOUT



SPEEDPO COMMENT SPEEDPO COMMENT SPEEDPO SPEEDPO

SPEEDPOT HI (CW) (WHITE)
 SPEEDPOT WIPER (RED)
 SPEEDPOT LO (CCW) (ORANGE)

GSDA-ACCDEC-4

For use with all GSD4 DC drives

The GSDA-ACCDEC-4 option card overrides the fixed accel ramp built into the GSD4 drive, providing independently adjustable linear acceleration and deceleration from 0.5–8.0 seconds. Adjustments are made via two separate trim pots.

This option card plugs into the expansion connector on the GSD4 main circuit board.

GSDA-ACCDEC-4 installation and wiring information is included in the GSD4 DC Drives User Manual.

GSDA-AI-A

For use with DC drives: GSD4-24x-xC, GSD5-240-10C, GSD6-all (open-frame)

This option card is a 4–20 mA isolated analog current signal card that can replace the speed pot as a speed input signal to certain GSD series drives. The 4–20 mA signal input can be either grounded or ungrounded. The board sits on spacers screwed to the potentiometer HI, Wiper, and LO terminals on the main GSD drive board using screws (included).

GSDA-AI-A installation and wiring information is included in the GSDA-AI-A DC Drives Accessory Data Sheet.



GSDA-AI-A8

For use with DC drives: All GSD8 series drives except GSD8-240-5C

This option card features an Optically-Isolated 4-20 mA Current Loop Input and an Optically-Isolated 4-20 mA Current Loop Output. In addition, a nonisolated SPST switch input is provided. That switch is used to determine where the GSD8 Drive gets its "Target Speed" setting. In "Manual" mode, the GSD8 Drive uses its normal Front Panel display and Up/Down buttons to set the Target Speed (or Time). In "Auto" mode, the GSD8 Drive follows the GSDA-AI-A8's 4-20 mA Current Loop signal. In either mode, the GSDA-AI-A8's Current Loop Output provides a real-time updating 4-20 mA signal that represents the GSD8 Drive motor's Actual (Tach) Speed.

GSDA-AI-A8 installation and wiring information is included in the GSDA-AI-A8 User Manual.



1-800-633-0405 For the latest price **GSD Series DC Drives Accessories**

GSDA-AI-V4

For use with GSD4-240-xC (120-240V open-frame) DC drives

This option card allows for the use of either a grounded or non-grounded remote DC signal such as 0–5 VDC through 0–250 VDC, 4–20mA current, or a remote speed pot. The DC input signal type can be selected for voltage (Vin) or current (4–20mA), and there is a GAIN trim pot to set full linear output in reference to the input signal range. The output of this remote signal isolation board is a linear signal that is proportional to the remote input signal being supplied.

GSDA-AI-V4 installation and wiring information is included in the GSD4 DC Drives User Manual.

GSDA-AI-V4A

For use with GSD4A-240-2C, GSD4A-240-6C DC drives

This option card allows for the use of either a grounded or non-grounded remote DC signal such as 0–5 VDC through 0–250 VDC, 4–20mA current, or a remote speed pot. The DC input signal type can be selected for voltage (V) or current (4–20mA) via the JP2 jumper. The GAIN trimpot is used to set full linear output in reference to the input signal range. The output of this remote signal isolation board is a linear signal that is proportional to the remote input signal being supplied.

GSDA-AI-V4A installation and wiring information is included in the GSDA-AI-V4A DC Drives Accessory Data Sheet.

GSDA-AI-V5

For use with GSD5-240-10C (open-frame) DC drives

This option card allows for the use of either a grounded or non-grounded remote DC signal such as 0–5 VDC through 0–250 VDC, 4–20mA, or a remote speed potentiometer. The DC input signal type can be selected for voltage (Vin) or current (4–20mA), and there is a Hi/Lo range selection to select the voltage ranges. The GAIN trim pot is used to set full linear output in reference to the input signal range. The output of this remote signal isolation board is a linear signal that is proportional to the remote input signal being supplied.

GSDA-AI-V5 installation and wiring information is included in the GSD5 DC Drives User Manual.

GSDA-CM-8

For use with all GSD8 drives except GSD8-240-5c

This is an ASCII option card with RS-232 or RS-485 serial communications and additional features. Baud rate is configurable from 300 to 57600. In addition, the GSDA-CM-8 can output a square wave frequency from 4 pulses per minute to 9999 ppm. The analog input of the GSDA-CM-8 has been designed to use three types of analog signal sources: Potentiometer, 0 to +5VDC, or 4 to 20mA current source. Additionally, the GSDA-CM-8 can drive the "Auto/Manual" LED indicator to display whether the source of the Target setting comes from the analog input or from the "Front Panel" ("Manual").

GSDA-CM-8 installation and wiring information is included in the GSDA-CM-8 User Manual.









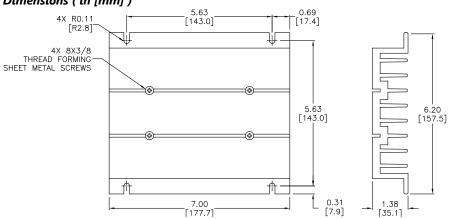
GSDA-HTSNK-4

For use with GSD4-xxx-xC (open-frame) DC drives

Optional heatsink for open-frame GSD4-xxx-1C and GSD4-xxx-5C DC drives only.

Increases the output current capability of GSD4-240-5C drives to 10A (<u>non-UL</u> <u>applications only</u>). **Dimensions (in [mm])**



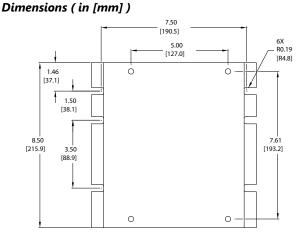


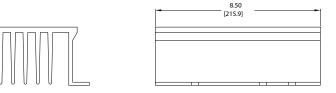
GSDA-HTSNK-4A

For use with GSD4A DC drives Optional heatsink for open-frame GSD4A-240-2C and GSDA-240-6C drives only.

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Increases the output current capability.





Dimensions (in [mm])

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15/32-32

THREAD

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12X 6-32X3/16

BINDING HEAD

SCREWS

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[1.8] MOUNTING CUTOUT

1-800-633-0405 For the latest price **GSD Series DC Drives Accessories**

GSDA-MREV

For use with DC drives: GSD3 (all), GSD4/4a (all), GSD5 (all), GSD8 (all)

The GSDA-MREV Manual Reversing Switch is a 4PDT 10A-rated centerblocked manual switch that can be used with IronHorse GSD series DC drives to manually reverse the direction of a DC motor. When switched between the Forward and Reverse positions, the blocked center position causes a delay which protects the DC drive from any voltage that may be on the motor armature terminals. The center position is OFF/NEUTRAL and is not connected to a wiring terminal. If GSDA-MREV is used in conjunction with a NEMA4x model drive, a user supplied enclosure separate from the drive must be used.

Use the GSDA-MREV switch to manually reverse a DC motor without damaging the drive.

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Switch Position 1 Switch Position OFF (no wire terminal) Switch Position 2

GSDA-PU2E/GSDA-PU2R

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For use with all GSD8 drives, and GSDA-DP-D

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Common

wire terminal

The PU2E and PU2R pickups are an economical way to monitor motor speed. The PU2E is designed for indoor use, while the PU2R is for wash down or outdoor use. Both provide one pulse per revolution. They operate from a +5V power supply, producing a 5V square wave whose frequency is proportional to speed. This signal is fed into the device speed control as a speed or position reference for the microprocessor.

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GSDA-PU2E/PU2R installation and wiring information is included in the GSDA-PU2E/PU2R Accessory Data Sheet.



1-800-633-0405 For the latest price **GSD Series DC Drives Accessories**

GSDA-DP

For use with DC drives: GSD1 (all), GSD3-24A-xxx (12–24V), GSD4 (all), GSD5 (all), GSD6 (all), GSD7 (all)

The GSDA-DP digital potentiometer is a compact, microprocessor-based unit capable of being either field or factory configured for a number of industrial user interface / control signal needs. The GSDA-DP allows the user to adjust the displayed value via the front-panel push buttons. As the displayed value is raised or lowered, the output signal from the GSDA-DP follows proportionally according to the unit's configuration. These units support both unipolar and bipolar output and are capable of automatically inverting, scaling, and offsetting the output as needed. The GSDA-DP series is ideal for volume OEM applications requiring specialized inputs and outputs.

The GSDA-DP's durable 1/8 DIN aluminum housings can be easily mounted in a panel or control cabinet.

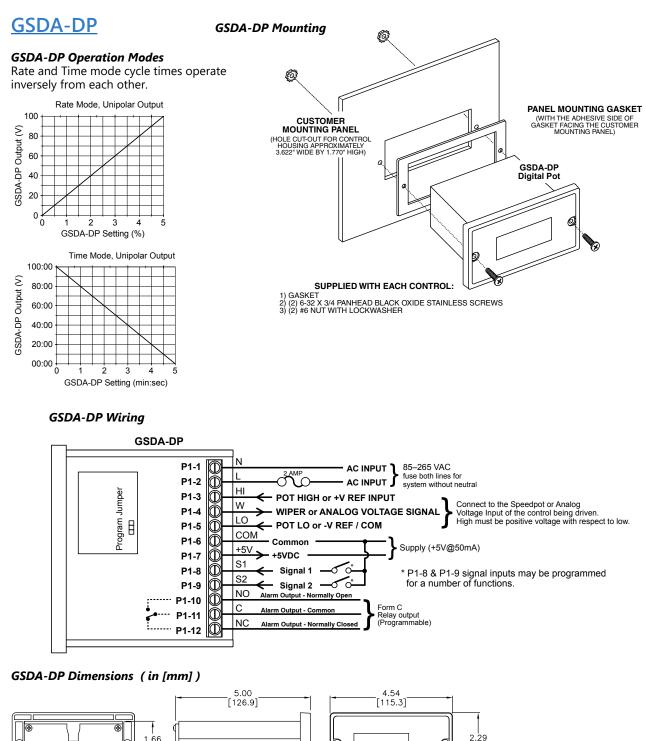


Standard Features

- Microprocessor-based design combines the ultimate in responsiveness and accuracy in one package
- Non-volatile memory stores adjustable parameters even when power has been removed
- Adjustable parameters include display range, output range, output polarity, alarm options, etc.
- Internal program-enable jumper selectively prevents tampering with unit's configuration
- Optional keyswitch mode prevents unauthorized changes (purchase GCX1420, etc. separately)
- Universal power supply accepts line voltages inputs from 85–265 VAC @ 50–60Hz without switches or jumpers. The unit automatically adjusts as needed
- Transient voltage protection prolongs unit's life in harsh industrial environments
- Self-contained power supply for external sensor, limited to 5V
 @ 50mA
- 1/8 DIN durable aluminum housing for panel mounting
- Large 4-digit, 1/2 inch LED display
- Lexan membrane and gasket (which are included) meet NEMA 4X standards when used with NEMA 4X enclosures
- Wide operating ambient temperature range of -10 °C to 45 °C (14 °F to 113 °F)
- Multiple operating modes including:
- Rate Mode* Displays in rate and non-rate units such as rpm, gallons per second, and percent
- Time Mode* Displays in time units such as HH:MM, MM:SS, SS:TT, or other units
- Rate and Time Modes operate inversely from each other

GSDA-DP – Specifications				
	Line Input Voltage	85–265 VAC		
	Line Input Frequency	48–62 Hz		
	Display Range	0.001–9999		
	Units of Operation	User programmable, any Unit		
	Onboard Power Supply (externally accessible)	5V @ 50mA		
Electrical	Pot Lo/Hi Supply VDC Range (external supply)	0–2 VDC through 0–24 VDC		
	Pot Wiper VDC Range	Pot Lo +50mV through Pot Hi -50mV		
	Pot Circuit Current Draw	2mA @ 12V		
	Pot Circuit Isolation	>500 MΩ		
	Isolated Alarm Relay Output Ratings	250VAC @ 5A; Form C		
	Resolution of D-A Converter	10 bits		
	Analog Output	Any unipolar or bipolar voltage range (based on input voltage) up to 24VDC		
	Display Type	LED, red, 4-Digit, 1/2 inch height		
	Housing Type (with supplied gasket in NEMA 4X panel)	1/8 DIN NEMA 4X		
	Connector Style	12-position 5mm European style		
Mechanical	Terminal Block Torque Setting	4.4 lb·in max [0.5 N·m]		
	Faceplate Material	Polycarbonate with Lexan overlay		
	Housing Material	Aluminum		
	Weight	14.4 oz [408.22g]		
Environmental	Operating Temperature Range	-10°C to 45°C [14°F to 113°F]		
	Operating Humidity Range	95% non-condensing		
Regulatory	Agency Approvals	RoHS		

1-800-633-0405 **GSD Series DC Drives Accessories**



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GSDA-DP-D

For use with GSD1 (all), GSD3-24A-xxx (12–24V), GSD4 (all), GSD5 (all), GSD6 (all), GSD7 (all)

The GSDA-DP-D motor speed control is a compact, microprocessor-based unit capable of being either field or factory configured for a number of motion control needs. The control is designed around a velocity form PID algorithm and provides a DC speedpot signal to an external drive. A flexible open-loop mode is also available for applications where using a speed pickup is not practical or desired. The GSDA-DP-D is easily configured to operate as a digital speed controller, time-based process controller, or as a ratiometric follower controller in master-slave systems. Featuring a Modbus expansion slot architecture, it is ideal for volume OEM adjustable speed control applications requiring specialized inputs and outputs.



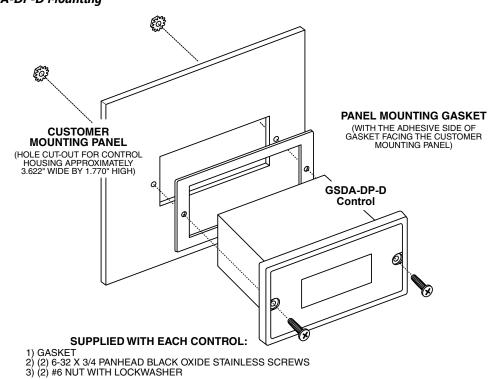
Standard Features

- Microprocessor-based design allows for incredible flexibility
- Modbus expansion to accommodate a wide variety of I/O
- Digital closed-loop algorithm ensures accuracy of plus or minus 1/2 RPM of set speed or equivalent
- Digital open-loop operation available
- Non-volatile memory stores settings without batteries
- Factory or field programmable via front-panel keypad
- Universal power supply accepts line voltages inputs from 85-265VAC @ 50-60Hz without switches or jumpers. The unit automatically adjusts as needed
- Transient voltage protection
- Flexible user inputs support Inhibit, Emergency-Stop, and Jog functionality
- Speed pickup input compatible with a variety of signal input types
- Self-contained power supply for external devices (5V @ 50mA)
- Two separate programmable alarm outputs with Form C contacts
- 1/8 DIN durable aluminum housing for panel mounting
- Large 4-digit, 1/2 inch LED display, with user-settable decimal point (colon displayed in Time mode)
- Polycarbonate membrane and gasket (included) meet NEMA 4X standards when used with NEMA 4X enclosures

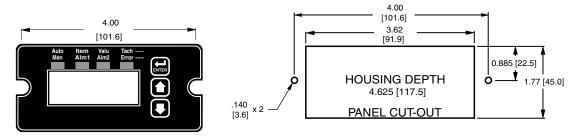
GSDA-DP-D – Specifications				
Electrical	Line Input Voltage	85–265 VAC		
	Line Input Frequency	48–62 Hz		
	Signal Input Voltage Range	5VDC to 24VDC (square wave, referenced to P1-6 COMMON)		
	Speed Pickup Input Frequencey Range (S1 and S2 Inputs)	0-600,000 pulses per minute @ 5V square wave		
	Display Range	0.001–9,999		
	Units of Operation	User programmable, any unit		
	Sensor/Pickup Power Supply	5V @ 50mA		
	Isolated Alarm Relay Output Rating	250VAC @ 5A		
	Voltage Difference between PotLo and PotHit Inputs	2VDC to 24VDC		
	Pot Wiper Output Voltage Range	PotLo +50mVDC to PotHi -50mVDC		
	Display Type	LED, red, 4-Digit, 1/2 inch height		
	Housing Type (with supplied gasket in NEMA 4X panel)	1/8 DIN NEMA 4X		
	Connector Style	12-position 5mm European style		
Mechanical	Terminal Block Torque Setting	4.4 lb·in [0.5 N·m] max		
	Faceplate Material	Polycarbonate with polycarbonate overlay		
	Housing Material	Aluminum		
	Weight	15.30 oz [433.86 g]		
Environmental	Operating Temperature Range	-10°C to 45°C [14°F to 113°F]		
	Operating Humidity Range	95% non-condensing		
Regulatory	Agency Approvals	RoHS		
Accessories	GSDA-PU2E/PU2R	Hall-effect pickup, single channel		
	GSDA-AI-A8	Input/Output option card		
	GSDA-CM-8	Serial communications option card		

GSDA-DP-D Mounting

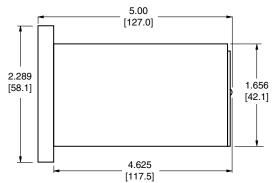
GSDA-DP-D



GSDA-DP-D Dimensions (in [mm])

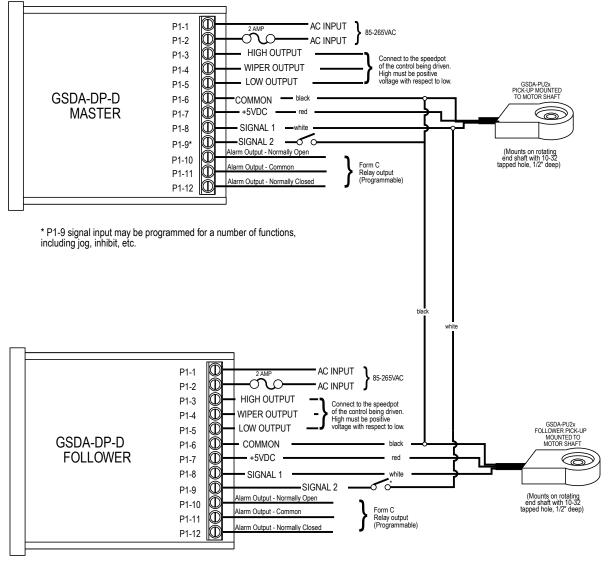


GSDA-DP-D Dimensions



GSDA-DP-D

GSDA-DP-D Wiring



* Optional Inhibit Switch

NOTE: Speed pickups shown above are not required for open-loop operation.

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GSDA-DP-S

For use with GSD1 (all), GSD3-24A-xxx (12–24V), GSD4 (all), GSD5 (all), GSD6 (all), GSD7 (all)

The GSDA-DP-S is a panel mounted, multi-purpose signal conditioner that allows the operator easy access to make adjustments to system operations. The GSDA-DP-S may be used in OEM equipment designs, plant operation or laboratory applications. Most other signal conditioners are DIN rail mounted inside a panel and designed to be set up once but many applications require frequent adjustments to meet application needs. The unique front-panel design of the GSDA-DP-S addresses this by making output adjustment easily accessible via convenient up and down pushbuttons and a large, easy to read LED display.

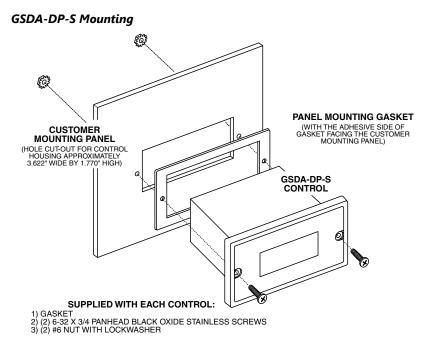


Standard Features

- Microprocessor design digital accuracy and repeatability
- Digital design offers long-term stability in a variety of environments
- Dual-Mode operation: Signal Scaling or Signal Generation
- Works in either voltage or current output modes
- Universal power supply accepts voltages of 85-265VAC@50-60Hz without switches or jumper settings
- Transient voltage protection protects device in harsh industrial environments
- 1/8 DIN panel mount is rated up to NEMA 4X in similarly rated panel
- Large 4 digit, 1/2 inch LED display is easy to read in indoor or outdoor applications
- Euro style terminal strip standard
- Wide operating temperature -10°C to +45°C (14°F to 113°F)
- Jumper selectable signal type Voltage or Current (mA) signal
- Configurable input to lock out operator changes once set

GSDA-DP-S – Specifications						
	Line Input Voltage		85–265 VAC			
	Line Input Frequency		48–62 Hz			
	Voltage Signal Input		0-10 VDC			
	Voltage Signal Output	Minimum	0.1–5 VDC			
		Maximum	0.1–20 VDC, 10mA			
Electrical	mA Signal Input		4–20 mA			
	mA Signal Output		4–20 mA			
	Dianlay Pango	Default	0–100.0%			
	Display Range	Maximum	-9999–9999			
	Units of Operation		Programmable			
	Onboard Power Supply (Externa	ally Accessible)	5V @ 500mA			
	Voltage Regulated Supply Outp	ut Range	24VDC ± 5%, 200mA			
	Display Type		LED, red, 4 digit, 1/2 inch height			
	Housing Type (with supplied ga	sket in NEMA 4X panel)	1/8" DIN NEMA 4X			
	Connector Style		3.5mm and 5mm European style			
Mechanical	Terminal Block Torque Setting		4.4 in·lb [0.5 N·m] maximum			
	Faceplate Material		Polycarbonate with Lexan overlay			
	Housing Material		Aluminum			
	Weight		14.4 oz [408.22g]			
Environmental	Operating Temperature Range		-10°C to 45°C [14°F to 113°F]			
	Operating Humidity Range		95%, non-condensing			
Regulatory	Agency Approvals		RoHS			

GSDA-DP-S



GSDA-DP-S Dimensions (in [mm])

