PULSEROLLER®

We don't make the conveyor. **We make it smart.**





Intelligent performance: Components for advanced intralogistics

PULSEROLLER®

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All **Pulseroller SENERGY**[®] motor roller and drive products utilize 10-pole brushless DC motors (BLDC) and all-metal planetary gearboxes. This design provides **superior reliability**, **excellent torque**, and **smooth and quiet operation**, even in the most demanding applications.

When combined with our patented control technologies; Pulseroller provides the **highest performance** and **most flexible** MDR control solutions in the industry. With a wide range of **accessories, interlocking,** and **coatings** the Senergy product line includes solutions for Washdown (NSF rated, IP66, IP69K), Freezer, Mechanical Brake, Pallet, and other material handling applications.



9-Pin JST Connector

SENERGY[®] Senergy & Senergy-Ai

The new marketplace standard. Pulseroller Senergy motor rollers have become the performance and reliability standard for the motorized roller conveyor industry. Coupled with Pulseroller's innovative and flexible controllers, Senergy solutions will provide reliable results for the most challenging material handling needs.

Senergy. Pulseroller's original motor roller was designed with a **9-Pin JST** style connector, the most common in the conveyor market. Its robust and unique gearbox design significantly improves life expectancy. Provides a wide range of speed and power and utilizes a safe and effective 24V power supply.

Senergy-Ai. Pulseroller's patented **Ai technology** has all the same benefits as Senergy, but Senergy-Ai provides intelligence inside the motor to allow precision commutation as well as the controller access to the roller specific data and usage. All of this functionality is achieved with simple yet proven and robust **4-Pin** M8 style connectivity.

BENEFITS

 Reliable conveyor operation

 Increased throughput

 Precise positioning

 Excellent longevity

 Remote visibility and diagnostics

FEATURES

Brushless 24V DC motor External motor controller High overload capacity High starting torque IP54/66/69K



4

SENERGY[®] / Senergy-Ai – proven material handling solutions



Performance Data - Senergy/Senergy-Ai 24V Models ① A, B, W, V, Q, and Z 48.6 mm Dia. ECO Mode

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Sneed	Gear Box	Gear	Spee	ed R m/s	ange	Torque N-m		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Code	Stages	Ratio		ft/mii	า	in	-lbs	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		g		Min		Max	Rated	Starting	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10		605/0	0.02	~	0.22	4.4	24.4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10		003/9	3.9	~	43.3	39.3	216.0	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	15		15	0.03	~	0.33	2.9	16.3	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	3	45	6.6	~	64.6	25.7	144.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20		22	0.05	~	0.45	2.1	12.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20		33	8.9	~	88.3	18.6	106.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25		27	0.06	~	0.55	1.7	9.8	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	23		27	10.8	~	107.6	15.0	86.7	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25		55/2	0.08	~	0.81	1.3	6.6	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30		33/3	15.7	~	159.1	11.1	58.4	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	45		15	0.10	~	0.99	0.9	5.4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	40	2		19.4	~	193.9	8.0	47.8	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	60			0.13	~	1.35	0.7	4.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	00		11	26.2	~	265.1	6.2	35.4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	75		9	0.16	~	1.64	0.5	3.2	
95 $75/11$ 0.22 ~ 2.17 0.4 2.4 125 1 5 6.29 ~ 2.96 0.3 1.8 5 57.7 ~ 582.0 2.7 15.9 11/3 0.40 ~ 4.04 0.2 1.3 78.7 ~ 794.9 1.8 11.5 3 0.49 ~ 4.93 0.1 1.0 96.1 ~ 969.8 0.9 8.9	70			32.2	~	323.2	4.4	28.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	05		75/11	0.22	~	2.17	0.4	2.4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	95		/ 5/ 11	42.3	~	426.8	3.5	21.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	105		F	0.29	~	2.96	0.3	1.8	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	125	1	5	57.7	~	582.0	2.7	15.9	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	175		11/2	0.40	~	4.04	0.2	1.3	
215 3 0.49 ~ 4.93 0.1 1.0 96.1 ~ 969.8 0.9 8.9 8.9			11/5	78.7	~	794.9	1.8	11.5	
96.1 ~ 969.8 0.9 8.9	215		3	0.49	~	4.93	0.1	1.0	
			Ŭ	96.1	~	969.8	0.9	8.9	

Starting Current

3.0A

Rated Current

2.5A

Performance Data - Senergy/Senergy-Ai 24V Models ① A, B, W, V, Q, and Z 48.6 mm Dia. BOOST & BOOST 8 Mode

Gear Box	Gear	Spee	ed R m/s	ange	Torque N-m			
Stages	Stages Ratio		rt/ mil	Max	Rated	BOOST Starting	BOOST-8 Starting	
	605/0	0.02	~	0.16	8.1	32.3	36.3	
	003/9	3.9	~	31.5	71.4	285.6	321.3	
	45	0.03	~	0.24	5.4	21.3	24.3	
2	45	6.6	~	46.9	47.8	188.5	215.1	
5	22	0.05	~	0.33	3.9	15.6	17.7	
	33	8.9	~	64.0	34.5	138.1	156.6	
	27	0.06	~	0.40	3.2	12.8	14.5	
	27	10.8	~	78.1	28.3	113.3	128.3	
	55/2	0.08	~	0.58	2.1	8.6	9.8	
	33/3	15.7	~	114.8	18.6	76.1	86.7	
	15	0.10	~	0.71	1.8	7.1	8.1	
2	15	19.4	~	140.4	15.9	62.8	71.7	
-	11	0.13	~	0.97	1.3	5.2	5.9	
	11	26.2	~	191.6	11.5	46.0	52.2	
	9	0.16	~	1.19	1.0	4.2	4.8	
	-	32.2	~	233.9	8.9	37.2	42.5	
	75/11	0.22	~	1.57	0.8	3.2	3.6	
	,	42.3	~	308.7	7.1	28.3	31.9	
	5	0.29	~	2.14	0.6	2.3	2.7	
1	0	57.7	~	420.9	5.3	20.4	23.9	
	11/3	0.40	~	2.92	0.4	1.7	1.9	
	11/0	78.7	~	574.8	3.5	15.0	16.8	
	3	0.49	~	3.56	0.3	1.4	1.6	
		96.1	~	701.4	2.7	12.4	14.2	
t	BOOST	Chamble -	••••		BOOS	T O Chartin - (
	BOOST	5 0 A	Cur	ent	BOOS		urrent	
	Gear Box Stages 3 2 2 1 2 Current	Gear Box Stages Gear Ratio 605/9 45 33_ 33_ 27 55/3 11 9 11 9 11 9 11 9 11/3 3 3 3 11/3 5 11/3 3	Gear Box Stages Gear Ratio Spect Min $Gear Ratio Min Aff 0.02 3.9 0.03 45 0.03 33 0.05 33 0.06 33 0.08 27 0.06 10.8 0.08 55/3 0.10 19.4 11 2 11 11 0.13 26.2 9 9 0.16 32.2 11 9 0.16 32.2 9 111 0.22 42.3 0.29 5 5.77 11/3 0.40 78.7 3 3 0.49 96.1 5.0A $	Gear Box Stages Gear Ratio Speed R m/s ft/min Min Min $Affinite Min Affinite 0.02 ~ Affinite 3.9 ~ Affinite 0.03 ~ Affinite 0.03 ~ Affinite 0.03 ~ Affinite 0.03 ~ 33 8.9 ~ 27 0.06 ~ 10.8 ~ ~ 10.8 ~ ~ 110 0.08 ~ 15 0.08 ~ 110 0.10 ~ 110 0.13 ~ 26.2 ~ ~ 9 0.16 ~ 32.2 ~ ~ 75711 0.22 ~ 11/3 0.40 ~ 78.7 ~ ~ 3 0.49 ~ $	Gear Box Stages Gear Ratio Speed Range m/s ft/min Min Max Min Max $605/9$ 0.02 ~ 0.16 3.9 ~ 31.5 0.03 ~ 0.24 45 6.6 ~ 46.9 33 0.05 ~ 0.33 33_{-} 8.9 ~ 64.0 27 0.06 ~ 0.40 27 0.08 ~ 0.58 78.1 0.10 ~ 0.71 28 15 0.10 ~ 0.71 19.4 ~ 140.4 15 0.10 ~ 0.71 19.4 ~ 11.4 26.2 \sim 191.6 ~ 119.3 26.2 \sim 191.6 9 0.16 ~ 1.19 32.2 \sim 233.9 111 0.13 \sim 0.292 \sim 2.14 5	Gear Box Stages Gear Ratio Speed Range m/s ft/min mage Main Max Rated Min Max Rated Min Max Rated 45 $605/9$ $0.02 \sim 0.16$ 8.1 $3.9 \sim 31.5$ 71.4 45 $0.03 \sim 0.24$ 5.4 $6.6 \sim 46.9$ 47.8 33_{-}^{-2} $8.9 \sim 64.0$ 34.5 3.9 33_{-}^{-2} $0.06 \sim 0.40$ 3.2 27 $0.06 \sim 0.40$ 3.2 $10.8 \sim 78.1$ 28.3 $55/3$ $0.08 \sim 0.58$ 2.1 $15.7 \sim 114.8$ 18.6 15 $0.10 \sim 0.71$ 1.8 $16 \sim 119$ $0.10 \sim 0.71$ 1.8 116 $0.10 \sim 0.71$ 1.8 9 $0.16 \sim 1.19$ 1.0 9 $0.16 \sim 1.19$ 1.0 $32.2 \sim 233.9$ 8.9 11 $0.22 \sim 1.57$ 0.8 75711 $0.29 \sim 2.14$ 0.6 $5.7 \sim 574.8$ 3.5	Gear Box Stages Gear Ratio Speed Range m/s ft/min Torque Max N-m in-bs Min Max Rated BOOST Starting Min Max Rated BOOST Starting 0.05 0.02 \sim 0.16 8.1 32.3 45 0.03 \sim 0.24 5.4 21.3 45 6.6 \sim 46.9 47.8 188.5 33 \sim 0.05 \sim 0.33 3.9 15.6 33^{-} 8.9 \sim 64.0 34.5 138.1 27 0.06 \sim 0.40 3.2 12.8 10.8 \sim 78.1 28.3 113.3 27 0.06 \sim 0.40 3.2 12.8 115 0.10 \sim 0.71 1.8 7.1 28.2 23.2 23.9 8.9 37.2 116 \sim 1.9	



General Specifications	Senergy	Senergy-Ai			
Available Tube Diameters	48.6 mm (1.9") 50 mm (1.97") 60.5 mm (2.38")				
Maximum Tube Length	1000) mm			
Motor Cable Length	600 mm	1000 mm			
Motor Controller Connection	9 Pin JST	4 Pin M8			
Washdown Model Available	Ye	es			
Freezer Rated Model Available	Ye	es			
Mechanical Brake Option	Yes	No			
Ambient Temperature	-10 ~ 40°C (14 ~ 104°	°F) (No Condensation)			
Ambient Humidity	10 ~ 90% RH (N	o Condensation)			
Certifications	CE, UKCA, IP54 UL Recognized to UL 1004-1 ETL Listed to UL 1004-1 & UL 1004-6				
Input Voltage	24 VDC				
Nominal Power Output	40W (50W in Boost Mode)				
Rated Current	2.5A (3.5A in Boost Mode)				
Starting Current	5A Boost Mode / 8A Boost-8 Mode				
Maximum Motor RPM	5800 ECO / 4200 Boost & Boost-8				
Minimum Motor RPM	580				
Minimum Duty Cycle	0.5 sec ON / 0.5 sec OFF (1.5 sec OFF when in Boost-8 Mode)				
Continuous Operation	At rated load/cur	rent in ECO Mode			
Compatible Controls	ConveyLinx ConveyLinx-HTF ConveyLinxE ConveyLinxE-HTF E-QUBE EZ-QUBE EZ-QUBE-W EZ-QUBE-HTBF	ConveyLinx-Ai2 ConveyLinx-Ai3-24-FC ConveyLinx-Ai3-24-RC MotionLinx-Ai E-QUBE-Ai EZ-QUBE-W-Ai			

4-Pin M8 Connector

Scan for More Technical Data



Senergy-Ai-48

Double voltage - multiple advantages With a 48V supply voltage, the established Senergy-Ai motorized roller reaches a new level of performance with the new Senergy-Ai-48 model. This model is based upon the same established, reliable, and proven mechanical components as all other Senergy models. This combination of known and proven mechanical design coupled with the performance and efficiency of 48V operation produce an impressive and exceptional product for the motorized roller conveyor industry.

The Senergy-Ai-48 utilizes the same proven and patented Ai technology controller connectivity as 24V Senergy-Ai with all of the features and advantages it affords.

Senergy-Ai-48 motor rollers are available as options for PDU-90 transfers and PPU-30/45 diverter units. The Senergy-Ai-48 engine is also available in our convenient PGD package.

When used in conjunction with either the ConveyLinx-Ai2-48 or ConveyLinx-Ai3-48-FC controllers, the use of 48V supply when compared with 24V supply can offer the following advantages:

- Significantly increased torgue of the drive for stronger acceleration of heavy goods and higher throughput.
- More precise and smooth acceleration due to high power output for better controllability of the drive when positioning and braking.
- Larger and more powerful PDU-90 transfers with increased length and quantity of belt units.
- By essentially decreasing the current load by 50%, power cables from the supply unit to the controllers can either be smaller gauge conductors or be significantly longer which can reduce the cost and increase flexibility in installation.
- · Reduction in the number of power supply units required for a given application can result in cost savings in procurement, cabling, and installation.



BENEFITS

Excellent acceleration of heavy goods Longer cables feasible Less power supplies needed More precise, smooth acceleration Larger more powerful transfers available Excellent longevity Remote visitility and diagnostics

FEATURES

Brushless 48V DC motor	
External motor controller	
High overload capacity	
High starting torque	
Oversized gearbox and parts	
Standard 4-Pin M8 connector	
Internal data memory	
IP54/66/69K	





Performance Data - Senergy-Ai-48V Models () A, W, V, Q, and Z 48.6 mm Dia.

Speed	Gear Box	Gear	Spee	ed R m/s ft/mi	ange n	Toro N- <i>in-l</i>	Torque N-m in-lbs			
coue	Slayes	Ratio	Min		Max	Rated	Holding			
15		45	0.03	~	0.40	2.95	7.94			
15	2	45	5.9	~	78.7	26.11	70.27			
20	3	22	0.04	~	0.54	2.16	5.82			
20		33	7.9	~	106.3	19.12	51.51			
25		55/2	0.08	~	0.97	1.25	3.10			
		33/3	15.7	~	190.9	11.06	27.44			
45	2	15	0.10	~	1.19	1.02	2.54			
45	40 2	10	19.7	~	234.3	9.03	22.48			
60	60	11	0.13	~	1.62	0.75	1.86			
00		11	25.6	~	318.9	6.64	16.46			

Rated Performance	Rated Current
50W	1.6A



Scan for More Technical Data

General Specifications	Senergy-Ai-48				
	48.6 mm (1.9")				
Available Tube Diameters	50 mm (1.97")				
	60.5 mm (2.38)				
Maximum Tube Length	1000 mm				
Motor Cable Length	1000 mm				
Motor Controller Connection	4 Pin M8				
Washdown Model Available	Yes				
Freezer Rated Model Available	Yes				
Mechanical Brake Option	No				
Ambient Temperature	-10 ~ 40°C (14 ~ 104°F)				
	(No Condensation)				
Ambient Humidity	10 ~ 90% RH (No Condensation)				
	CE, UKCA, IP54				
Certifications	UL Recognized to UL 1004-1				
	ETL Listed to UL 1004-1 & UL 1004-6				
Input Voltage	48 VDC				
Nominal Power Output	50W				
Rated Current	1.6A				
Starting Current	4.0A				
Maximum Motor RPM	7000				
Minimum Motor RPM	580				
Minimum Duty Cycle	0.5 sec ON / 0.5 sec OFF				
Continuous Operation	No overheat at rated load/current				
Compatible Controls	ConveyLinx-Ai2-48 ConveyLinx-Ai3-48-FC				



Ν

lbf

89.0

20.0

72.8

16.4

53.4

12.0

43.7

9.8

33.1

7.4

24.8

5.6

q

RAPTOR[®]

Roller Drive of the Future. While the Pulseroller team has been pushing the envelope of what the Senergy motor engine can do with **48V**, the team also went to the drawing board to come up with a new motor drive whose normal performance would exceed the Senergy pushed to its limits. The answer is the **RAPTOR**[®] Motor Roller and accompanying controller.

The **Raptor** is rated for **80W** of output power under **continuous operation** without overheating. The motor and control is also designed to provide **170W** of burst output power for up to 5 seconds. Unlike the 24V Senergy drives whose peak power is only available upon start-up, this burst is available **on demand**.

Particularly appealing is that the **Raptor's torque rating** for the equivalent 24V Senergy speed code is essentially **double**. Coupled with the on demand burst capability, the peak torque can be close to **4 times** for a Raptor at the comparable 24V Senergy speed code.

	Raptor-Ai
Available Tube Diameters	48.6 mm (1.9") 50 mm (1.97")
Maximum Tube Length	1000 mm
Motor Cable Length	1000 mm
Motor Controller Connection	4 Pin M8
Washdown Model Available	No
Mechanical Brake Option	No
Ambient Temperature	-10 ~ 40°C (14 ~ 104°F) (No Condensation)
Ambient Humidity	10 ~ 90% RH (No Condensation)
Certifications	CE UL Recognized to UL 1004-1
Input Voltage	24/48 VDC*
Nominal Power Output	80W*
Rated Current	2.5A
Starting Current	5.5A Max
Maximum Motor RPM	7500*
Minimum Motor RPM	600
Minimum Duty Cycle	0.5 sec ON / 0.5 sec OFF
Continuous Operation	No overheat at rated load/current
Compatible Controls	RSC-Ai

* Performance is derated when Input is 24VDC



Scan for More Technical Data

Interlocking, Lagging, and Coating Options

Interlocking Options

01

- 01 Dual Groove
- 02 Micro-V
- 03 Plain Straight
- 04 Round Groove Pulley

Lagging & Coating Options

- 05 Kastalon Sleeve (orange)
- 06 Kastalon Sleeve (black)
- 07 Grey PVC Sleeve
- 08 Custom Machined Coatings*



















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Motor End Fixing Brackets

A fixing bracket is included with each roller. You must specify fixing bracket part number when ordering roller.



Application Specific Options



01 Mechanical Holding Brake - PR-BD

This model includes a failsafe mechanical holding brake for the motor shaft. Applicable controllers utilize a dedicated pin on the motor connector to energize the brake coil to release. The controller automatically de-energizes the brake coil after motor deceleration.

02 Belted Zone - PR-AD Custom Option B

This model option includes double bearing design with pinned end plate construction to provide extra support for higher pulling tension applications such as belted conveyor zones.

03 Dual Drive - PR-DD

This model includes dual Senergy drive engines with a common mechanical intermediate plate. The resulting speed and torque performance is approximate 1.9 times that of a single PR-AD model.

04 Freezer Rated - PR-ZD

This model includes components and gearbox lubrication rated for temperatures down to -30°C (-22°F).



Ordering Information

Part Number Definition for Senergy / Senergy-Ai / Senergy-Ai-48 Motor Rollers

	Ũ)		2			3			(4	5	6	\bigcirc	8
PR	- 4	D	- 4	4 8	} -	5	0	0		4	5	Ζ	S	G	Q
PULSEROLLER Family	Mod	lel DC	R	oller Diamet	er		Roller Leng	yth	Speed Code				Motor Type		Shaft & Custom Options
										Materi	al & Lagging	Options	Interlo	ck Options	
① Model															
	A - Standard B - Built-in Brake														
	D - Dual Di	ive					V	- NSF	Certifie	d Wasl	h-Down	(IP66 v	v/ NBR	seals)	
	W - Wash-	Down Rate	d (IP66 w	/ NBR s	eals)		C) - Enha	anced W	ash-Do	own (IP	69K w/	Viton s	eals)	
	Z - Freezei	Rated													
② Roller [Diameter														
	48 - 48.6 ı	mm (1.9")					e	50 - 60	.5 mm (2.38")					
	50 - 50 mi	m (1.97")													
③ Roller L	③ Roller Length (mm) - Available in 1 mm increments														
	Formulas for Roller Length (RL) based upon Between Frame (BF) dimension for proper clearance														
	For I	nterlocking	g Options .	A and	5: RL =	= BF - 8m	m - Cus	tomer	Require	d Clear	ance				
	For I	nterlocking	g Options	H and	: RL =	BF - 35n	nm - Ci	istome	r Requir	ed Clea	arance				
	FOF MOST C	onveyor ap	plications	s, Custo	ner keq	quirea Ci	earance	e = 2mr	n						
(d) Speed (Coloct Cro	ad Cada fr	om Model	lonooif	a Darfa	rmanaa	Charta								
(E) Tube M	select spe			specii	C Perio	mance	Glidits								
	7 - Stool 7	inc Plating	n No Lago	nina (St	andard	for Pollo	r Diama	atore 1	2 and	50)					
		nichrome I	J, NU Layy Diating N	a Lagai	na (Sta	ndard fo	r Dollor	Diama	tor 60)					
	Δ - Stainle	ss Tube (S	tandard f	or Mod	ale V I	W and C		Diame							
	- Stainle	ss Tube (O	ntion for I	Models		R and 7)								
	B - 3 mm F	Sack Rubb	erlandin	n	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, and _)								
	W - ½ in (3 18 mm) l	Urethane	9 Lannini	I		O - 2 mm Grev PVC Sleeve								
	K - ½ in. (3	.18 mm) K	Castalon C)range (, Sleeve		Y - Special								
6 Motor 1	уре	- /		- J -											
	S - Senerg	y (DC24V J	JST Conne	ector)			M	🖊 - Ser	nergy-Ai	(DC24	V 4-Pin	M8 Co	nnecto	r)	
	X - Senerg	y-Ai-48 (DC	C48V 4-Pii	n M8 C	onnecto	or)									
⑦ Interloc	king Option	5													
	A - Plain Straight (no interlocking) G - F							G - Rou	nd Groc	ves					
	H - Micro-V Pulley E - Round Groove Pulle						ey								
	Y - Special														
[®] Shaft &	/or Custom (Options (M	otor End	/ Idler I	nd)										
	Q - Non-Th	readed He	ex / Spring	g Loade	d Hex		B - Double Bearing Pinned Construction								
	${f P}$ - M12 Threaded Hex / Spring Loaded Hex						١	Y - Special							

Washdown Options Senergy,® Senergy-Ai, & PGD-Ai

Ability to weather the storm. Tube material is SUS304 rated stainless steel with SUS303 rated stainless steel for bearings and shafts.

- IP66 model with nitrile o-rings and oil seals
- · IP69K model with viton o-rings and oil seals
- IP66 non-powered idler available



FEATURES

Brushless 24V DC motor Full Ai-Technology available External motor controller High overload capacity High starting torque 4-pin M8 standard connector available Optional viton seals for caustic environment





Certified Washdown Rated Motor Roller and Idler

- Round Groove and Plain Straight Only
- · 24V & 48V Options Available
- 800 mm Maximum Length
- IP66 Ingress Protection

Scan for More Technical Data





Washdown Idler

General Specifications	Washdown Idler	NSF Washdown Idler			
Available Tube Diameters	48.6 mm (1.9") 50 mm (1.97")				
Minimum Tube Length	200 mm				
Maximum Tube Lengthh	1000 mm	800 mm			
Tube Material	Stainless Steel - SUS304				
Bearings & Shaft Materials	Stainless Steel SUS303				
Ingress Protection	IP66 (Model W) IP69K (Model Q)	IP66			
O-Ring & Seals Material	Nitrile (Model W) Viton (Model Q)	Nitrile			
Ambient Temperature	-10 ~ 40°C (14 ~ 104°F) (No Condensation)				
Ambient Humidity	10 ~ 90% RH (No Condensation)				





Ordering Information

Part Number Definition for Washdown Idler Rollers





Senergy-IDC

Pulseroller Senergy-IDC (Internal Drive **Commutation)** motor rollers are designed to be drop-in compatible with many 3rd party motor controllers. The Senergy-IDC utilizes the same robust and reliable motor and gearbox construction used in all Senergy products. Available in Pulse Geared Drive (PGD) and MDR versions.

Senergy-IDC

BENEFITS

Drop in Replacement Excellent longevity

Operates with Existing Controls

FEATURES

Brushless 24V DC motor

High overload capacity

High starting torque

5-pin M8 standard connector



Performance Data - Senergy-IDC 24V **Internal Drive Commutation** 48.6 mm Dia.

Speed	ed Gear Box Gear		Spee	ed R m/s	ange	Torque N-m			
Code	Stages	Ratio	Min		Max	Rated	Accel	Starting	
15		45	0.03	~	0.33	2.7	4.2	10.3	
15	2	45	6.6	~	65.0	23.9	36.7	91.2	
20	3	22	0.04	~	0.45	2.0	3.0	7.5	
20		33	7.9	~	88.6	17.7	26.8	66.4	
25		EE /2	0.08	~	0.81	1.1	1.8	4.2	
30		55/5	15.7	~	159.4	9.7	16.3	37.2	
15	2	15	0.10	~	0.98	0.9	1.5	3.4	
43	-	15	19.7	~	192.9	8.0	13.4	30.1	
60		11	0.13	~	1.34	0.6	1.1	2.5	
		11	25.6	~	263.8	5.3	9.7	22.1	
95	1	1 75/11	0.22	~	2.16	0.4	0.8	1.5	
	· ·	,	43.3	~	425.2	3.5	6.6	13.3	

Rated Current	Starting Current
2.4A	3.0A

Performance Data - Senergy-IDC PGD 24V All Models

Nominal Gear	Gear Box	Actual Gear	Output	Shaf RPM	t Speed	Torque N-m <i>in-lbs</i>				
Ratio	Stayes	Ratio	Min		Max	Rated	Accel	Starting		
11		11	50		520	0.6	1.1	2.5		
11		11	52	~	520	5.3	9.7	22.1		
15	2	15	20	~	206	0.9	1.5	3.4		
15	-	15	30		300	8.0	13.4	30.1		
18		55/3	31	~	316	1.1	1.8	4.2		
					010	9.7	16.3	37.2		
22		22	17		176	2.0	3.0	7.5		
33	2	33	17	~	170	17.7	26.8	66.4		
15	5	45	10		100	2.7	4.2	10.3		
45		40	12	~	120	23.9	36.7	91.2		

	18.6 mm(1.0")
Available Tube Diameters	50 mm (1.97")
Maximum Tube Length*	1000 mm
Motor Cable Length	500 mm
Motor Controller Connection	5 Pin M8
Washdown Model Available	Yes
Mechanical Brake Option	No
Ambient Temperature	-10 ~ 40°C (14 ~ 104°F) (No Condensation)
Ambient Humidity	10 ~ 90% RH (No Condensation)
Certifications	CE, UKCA
Input Voltage	24 VDC
Nominal Power Output	38W
Rated Current	2.4A
Starting Current	3.0A
Maximum Motor RPM	5800
Minimum Motor RPM	580
Minimum Duty Cycle	0.5 sec ON / 0.5 sec OFF
Continuous Operation	At rated load/current

* Contact Pulseroller for longer length applications

ble Tube Diameters	48.6 mm (1.9") 50 mm (1.97")
mum Tube Length*	1000 mm
Motor Cable Length	500 mm
ntroller Connection	5 Pin M8
wn Model Available	Yes
anical Brake Option	No
nbient Temperature	-10 ~ 40°C (14 ~ 104°F) (No Condensation)
Ambient Humidity	10 ~ 90% RH (No Condensation)
Certifications	CE, UKCA
Input Voltage	24 VDC
ninal Power Output	38W
Rated Current	2.4A
Starting Current	3.0A
aximum Motor RPM	5800

Rated Current	Starting Current
2.4A	3.0A

Ordering Information

Part Number Definition for Senergy-IDC 24V Internal Drive Control Motor Rollers

			1			(a)			3			(4)	5		6	\bigcirc		
Ρ	R	-	Α	D	-	4	8	-	5	0	0	-	1	5	Ζ	Κ	Α	т		
PULSEF Fan	ROLLER nily		Model	DC		Roller D	iameter			Roller Lengt	1		Spee	d Code		IDC Motor Type		Shaft & Custom Options		
														Materi	al & Lagging) Options	Interlo	ck Options		
① Mo	odel																			
		A - St	andard							Ζ	- Freeze	er rate	d (-30°	C / -22°	°F)					
@ Ro	ller D	iamete	r							_	-									
		48 - 4	18.6 mm	(1.9")		•				5	0 - 50 r	nm								
(3) Ro	ller L	ength (I	mm) - A ao for D	vailabl ollor L	e in 1 i ongth (mm inc	rement	S Rotu	voon E	romo (P	E) dim	onoion	for pr	nor old	oronoo					
		Formul	Eor Into	oller Lo rlookin	engin (a Optic		nd C	ות הפני ח – ח		rame (b	r) unno	ension	for pro	phei cie	earance					
			For Inte	rlockin	a Ontic	ons H a	nd F	RI = RF	- 36m	m										
(4) Sn	eed C	Code			9 opii0				0011											
		Select	Speed (Code fr	rom Mc	odel spe	ecific P	erform	ance C	harts										
⑤ Tu	be M	aterials	and Lag	ging C	Options	;														
		Z - St	andard N	Mild St	eel, Zin	nc Platir	ng, No	Lagging]											
		J - Sta	ainless 1	Гube																
		B - 3 i	mm Blac	k Rubb	oer Lag	Iging														
		W - 1/8	in. (3.1	8 mm)	Uretha	ine Lag	ging													
		Y - Sp	ecial																	
© Int	erloc	king Op	otions																	
		A - Pl	ain Strai	ght (no	o interle	ocking)				н	H - Micro-V Hub									
		G - Ro	ound Gro	oves						F	- Round	d Groo	ve Pull	еу						
(7) Ch	oft 0	Y - Sp	ecial	nd / Id	lor End	1)														
⊘ 3 ⊓	artU	μιιστις (Τ - Μ'	12 Three	nu / 10 aded H		V R Femal	o Thro	aded												
		P - M	12 Three	aded H	ex / Sn		aded H	ex		Y	- Sneci	ial								
			Scar Tech	n for Inica	More I Data	a														

Senergy-HBR

Holding Brake Roller with Senergy-Ai technology The HBR is a **non-motorized** roller that contains a mechanical **holding brake** to allow you provide failsafe zone braking functionality previously unavailable with Senergy-Ai technology. Simply plug the HBR into any open motor port on ConveyLinx-Ai (24V or 48V) family controllers and the HBR will function **without any set-up required**.

General Specifications	HBR
Available Tube Diameters	48.6 mm (1.9") 50 mm (1.97") 60.5 mm (2.38")
Maximum Tube Length	1000 mm
Cable Length	1000 mm
Motor Controller Connection	4 Pin M8
Washdown Model Available	Yes
Freezer Rated Model Available	Yes
Mechanical Brake Option	Standard
Ambient Temperature	-10 ~ 40°C (14 ~ 104°F) (No Condensation)
Ambient Humidity	10 ~ 90% RH (No Condensation)
Certifications	CE, UKCA, RoHS, IP54
Input Voltage	24/48 VDC
Minimum Duty Cycle	0.5 sec ON / 0.5 sec OFF
Compatible Controls	ConveyLinx-Ai2 ConveyLinx-Ai3-24-FC ConveyLinx-Ai3-24-RC MotionLinx-Ai ConveyLinx-Ai2-48 ConveyLinx-Ai3-48-FC

BENEFITS

Provides failsafe brake for Senergy-Ai systems

No set-up or configuration required

Same robust mechanical components as Senergy MDRs

FEATURES

Failsafe operation

3 gearbox ratios to match powered roller operation

Plugs into open ConveyLinx-Ai motor port





Ordering Information

Part Number Definition for Holding Brake Roller

		1			2)		((4)	5		6	\bigcirc
HBR	-	Α	D	-	4	8 .	-	5	0	0	-	4	5	Ζ	9	Α	0
Holding Brake Roller Family		Model	DC		Roller Di	iameter	1	Roller Length				Gear Rati			HBR Type		Shaft & Custom Options
													Materia	al & Lagging	Options	Interlo	ck Options
① Model	odel																
	A - Sta	andard							Q	- Wash	-Down	Rated	(IP69K))			
	W - W	ash-Dov	wn Rate	d (IP6	6)												
② Roller I	Diameter																
	48 - 4	8.6 mm	ı (1.9")						5	0 - 50 i	mm						
③ Roller I	.ength (r	nm) - A	vailable	e in 1 n	nm incı	rements											
	Formula	as for R	oller Le	ength (RL) bas	ed upon E	Betwe	en Fr	ame (E	BF) dim	ension	for pro	per cle	earance			
		For Inte	rlocking	g Optio	ns <mark>A</mark> a	nd <mark>G</mark> : RL	= BF -	- 8mm	- Cust	omer R	equired	l Cleara	ance				
		For Inte	rlocking	g Optio	ns <mark>H</mark> a	nd F : RL =	= BF -	35mr	n - Cu	stomer	Requir	ed Clea	rance				
	For mo	ost conv	eyor ap	plicati	ons, Cu	stomer Re	quire	d Clea	arance	= 2mm							
④ Gear Ra	④ Gear Ratio																
	45 - 4	5:1 Gea	ır Ratio	for use	e with N	IDR Speed	d Cod	les 15	, 20, ai	nd 25							
	18 - 1	8:1 Gea	r Ratio	for use	e with N	IDR Speed	d Cod	les 35	, 45, ai	nd 60							
	11 - 1	1:1 Gea	r Ratio	for use	e with N	IDR Speed	d Cod	le 75									
⑤ Tube M	aterials	and Lag	gging O	ptions													
	Z - Ste	eel, Zinc	Plating	g, No L	agging												
	A - Sta	ainless	Tube (S	tandar	d for M	odels Q a	nd W	V)									
	J - Sta	ainless 7	Tube (O	ption f	or Mod	el 🗛)											
	B - 3 r	nm Blac	ck Rubb	er Lag	ging												
	W - 1/8	in. (3.1	8 mm)	Uretha	ne Lag	ging			Q	- 2 mn	n Grey	PVC SI	eeve				
	K - 1⁄8 i	in. (3.18	3 mm) K	astalo	n Oran	ge Sleeve			Y	- Spec	ial						
6 Interloo	cking Op	tions							_								
	A - Pla	ain Strai	ight (no	interlo	ocking)				н	- Micro	o-V Hul	כ					
	G - Ro	und Gro	oves						F	- Roun	d Groo	e Pull	еу				
	Y - Sp	ecial															
⑦ Shaft O	ptions (Motor E	nd / Idl	er End)				_								
	Q - No	on-Threa	aded He	ex / Spi	ring Loa	aded Hex			Т	- M12	Thread	ed Hex	(/ M8 F	emale	Thread	ed	
	P - M1	2 Threa	aded He	ex / Sp	ring Loa	aded Hex			Y	- Spec	ial						
	F - No	n-Threa	ded He	x / M8	Female	e Threadeo	d										

Pallet Handling Rollers

Pulseroller 24V Pallet handling rollers take advantage of our proven robust all metal gearbox and reinforced construction methods, to manufacture heavy duty rollers for pallet handling applications.



Pallet-Ai model utilizes all the features and benefits of Ai technology.

Performance Data - Senergy/Senergy-Ai Pallet Handling 24V All Models ① 63.5 mm (2.5") Dia. BOOST & BOOST 8 Mode

Speed	Gear Box	Gear	Spee	ed Ra m/s ft/min	ange	Torque N-m in-lbs					
Code	Stages	Ratio	Min		Max	Rated	BOOST Starting	BOOST-8 Starting			
0		0075/00	0.02	~	0.15	10.9	43.3	49.3			
0		9075/99	4.3	~	30.2	96.5	383.2	436.3			
10		60E/0	0.03	~	0.21	8.0	31.8	36.1			
10	3	000/9	5.6	~	41.0	70.8	281.4	319.5			
15	Ū	45	0.04	~	0.31	5.4	21.3	24.3			
10			8.5	~	61.0	47.8	188.5	215.1			
20		22	0.06	~	0.42	3.9	15.6	17.7			
20			11.5	~	83.3	34.5	138.1	156.6			







Scan for More Technical Data

General Specifications	Pallet Handling	Pallet Handling-Ai					
Available Tube Diameters	60.5 mm (2.38") 63.5 mm (2.5")						
Maximum Tube Length	1800 mm						
Motor Cable Length	600 mm	1000 mm					
Motor Controller Connection	9 Pin JST	4 Pin M8					
Washdown Model Available	Yes (60.5 mm Only u	ip to 600 mm length)					
Mechanical Brake Option	Yes	No					
Ambient Temperature	-10 ~ 40°C (14 ~ 104°	°F) (No Condensation)					
Ambient Humidity	10 ~ 90% RH (N	o Condensation)					
Certifications	CE, UKCA UL Recognized to UL 1004-1 ETL Listed to UL 1004-1 & UL 1004-6						
Input Voltage	24	VDC					
Nominal Power Output	40W (50W in	Boost Mode)					
Rated Current	2.5A (3.5A in Boost Mode)						
Starting Current	5A Boost Mode / 8A Boost-8 Mode						
Maximum Motor RPM	5800 ECO / 4200 Boost & Boost-8						
Minimum Motor RPM	58	30					
Minimum Duty Cycle	0.5 sec ON / (1.5 sec OFF wher	0.5 sec OFF n in Boost-8 Mode)					
Continuous Operation	At rated load/cur	rent in ECO Mode					
Compatible Controls	ConveyLinx ConveyLinx-HTF ConveyLinxE ConveyLinxE-HTF E-QUBE EZ-QUBE EZ-QUBE-W EZ-QUBE-HTBF	ConveyLinx-Ai2 ConveyLinx-Ai3-24-FC ConveyLinx-Ai3-24-RC MotionLinx-Ai E-QUBE-Ai EZ-QUBE-W-Ai					

Ordering Information

Part Number Definition for Senergy / Senergy-Ai Pallet Handling Motor Rollers

	1			(Z	2)		3				4		5	6	\bigcirc	8
PR	- P	D	-	6	3	-	5	0	0	-	1	5	Α	S	Α	Q
PULSEROLLER Family	Model	DC		Roller D	iameter			Roller Lengt	ı		Spee	ed Code		Motor Type		Custom
' uniny												Materi	l al & Lagging	agging Options		ck Options
① Model													_			
P	- Standard	Pallet H	landlin	g				Μ	- Palle	et Hand	lling W	ash-Do	wn Rate	ed (IP66	5)	
⁽²⁾ Roller Diam	eter	(0.00	、 、							_	(
	J - 60.5 mm	n (2.38″) . : 1	•				6	3 - 63.	5 mm	(2.5″)					
	(n (mm) - A mulee for P		e in in North (i	nm inci DL) box	rement	(S on Pot u	waan Er	omo (P	E) dim	onaiar	for pr	opor ola	oronoo			
FUI			a Optio						r) uili	r Doqui		oper cie	arance			
	FOI IIILE	rlocking	y Optio a Optio	п ы м а. г. Ц , п	110 D .	πL – DI	r - 21 11 m Cu	nn - Cu	Doquir	requi	eu cie	arance				
Fo	r most con	enocking vevor an	y Optio Indicati	n 🖬. K	L – DF	- 74 IIII r Doqui	ni - Cu: rod Clo	aranco	reyull - 2mm		lance					
FU		еуог ар	ipiicatio	0115, Cu	stomer	глеции		arance	- 211111	1						
	: lact Sneed	Code fr	om Mo	طما مم	ocific P	orform	anco Cl	harte								
(5) Tube Mater	ials and La		ntions	uer spe		enonn		10113								
	- Standard	Mild Sta	ool 7in	c Platir	na No	l annin	a									
	- Stainless	Tuhe (Δ	vailahl	e for R	oller Di	ameter	9 • 60 or	nlv)								
B	- 3 mm Bla	ck Ruhh	er Lan	nina	oner bi	unicter	00 01	<i>y)</i>								
W	- ¼ in (3 1	8 mm)	Uretha	ne l au	aina											
Y	- Snecial	0 1111)	oretha		ging											
6 Motor Type	opeolai															
S	- Senergy (I	DC24V	JST Co	nnecto	r)			N	- Sen	ergy-Ai	(DC24	V 4-Pin	M8 Co	nnecto	r)	
⑦ Interlocking) Options				,						、				,	
Α	- Plain Stra	ight (no	interlo	ocking)				Н	- Micr	o-V Hu	b					
D	- Dual Spro	ckets						Υ	- Spec	cial						
8 Custom Opt	ions															
Q	- Standard							Y	- Spec	cial						

Pulse Geared Drive PGD, PGD-Ai, & PGD-Ai-48

PGDs can be used to replace pneumatic and AC drives in conveyor applications to standardize controls and bus systems for higher efficiency and simplification of complex projects. All PDG models are available for 24V power and PGD-Ai-48 model is available for 48V power.

Basic idea behind the PGD models is the fact that there are often many more motors in conveyor systems than just the motorized roller. With the PGD's compact and strong gear motor, it can fit seamlessly into the controls architecture of the motor rollers. **No pneumatics** or any secondary communication bus interface is required.

The advantage of this is that the mechanical and electrical design of the conveyor system as a whole gets less expensive, easier to maintain, and more straightforward. Virtually all functionality required in conveyors are now controlled and driven by Pulseroller products. In most cases, pneumatic actuators can be completely replaced.

Compactness is the key for PGD models to be applied in many different applications such as servo motor for pop up wheels, in transfers as belt drive or lift motor, and as a general purpose actuator. This mechanical convenience along with the **advanced positioning control** capabilities of ConveyLinx makes the PGD models a perfect solution.

BENEFITS

Servomotor for conveyor applications
Replaces pneumatics
Versatile application
Same control like Senergy/Senergy-Ai
One control for all motion in conveyor
Space saving design

FEATURES

Brushless 24V DC motor
Double bearing output shaft
Full Ai-Technology available
External motor controller
High overload capacity
High starting torque
Standard 4-Pin M8 connector with Ai option
Internal Data memory with Ai option





Performance Data - Senergy-PGD/Senergy-PGD-Ai 24V All Models ECO Mode

EUU	woue	

Nominal Gear	Gear Box	Gear Box Gear RPM			Torque N-m <i>in-lbs</i>		
Ratio	Judges	Ratio	Min		Max	Rated	Starting
67		605/0	0 50		06 70	4.4	24.4
07		003/9	0.50		00.70	38.9	215.9
45		45	12.00		120.00	2.9	16.3
40	3	40	12.00	~	129.00	25.7	144.3
33	Ū	33	17 40	~	176 30	2.1	12.0
			17.10		170.00	18.6	106.2
27		27	21 30	~	215 10	1.7	9.8
27		21	21.00		210.10	15.0	86.7
10		55/2	21 40		217 20	1.2	6.6
10		55/5	51.40	~ 317.30	10.6	58.4	
15		15	38.40	~	387 20	0.9	5.4
10	2	10	00.40		007.20	8.0	47.8
11	2	11	52 40	~	528 90	0.7	4.0
			02.1.0			6.2	35.4
q		Q	64.00	~	645 30	0.5	3.2
		,	01.00		010.00	4.4	28.3
Rated (Current	Starting (Current	_			
2.	5A	3.0	A				

Rated Current	Starting
2.5A	3.0

Performance Data - Senergy-PGD-Ai-48V

Nominal Gear	Gear Box	Actual Gear	Output	Output Shaft Speed RPM		Torque N-m in-lbs	
Ratio	oluges	Ratio	Min		Max	Rated	Holding
45		45	12.90		155 56	2.95	7.94
40		45	12.09	12.09 ~ 133.3	155.50	26.1	70.3
33	3	33	17 61	~	212 51	2.16	5.82
55			17.01	212.01	19.1	51.5	
27		07	21 40		250.26	1.25	3.10
27		21	21.40		239.20	11.1	27.4
15		15	38.67	166.6	466 67	1.02	2.54
10	2	15	30.07		400.07	9.0	22.5
11	2	11	52.82	~	637 52	0.75	1.86
			02.02	2.02 007.02	6.6	16.5	
Rateu	output	rdleu C	urrent				

Performance Data - Senergy-PGD/Senergy-PGD-Ai 24V All Models BOOST & BOOST-8 Modes

Nominal Gear Gear Box		Actual Gear	Ctual R		ft Speed I	Torque N-m <i>in-lbs</i>			
Ratio	Stages	Ratio	Min		Max	Rated	BOOST Starting	BOOST-8 Starting	
67		605/0	8 50	~	62 70	8.0	31.8	36.1	
07		003/9	0.50	02.70	70.8	281.4	319.5		
45		45	12.90		. 02.20	5.4	21.3	24.3	
43	3	40	12.00	12.00 12 95.50	47.8	188.5	215.1		
33		33	17 40	~	127 50	3.9	15.6	17.7	
		00 17.40	127.00	34.5	138.1	156.6			
27			27	21.30		155 50	3.2	12.8	14.5
27		27 21.50 ~	133.30	28.3	113.3	128.3			
10		55/2	21.40	~	220 50	2.1	8.6	9.8	
10		55/5	31.40	~	229.50	18.6	76.1	86.7	
15		15	38 /0	~	280.00	1.8	7.1	8.1	
15	2	15	30.40		200.00	15.9	62.8	71.7	
11	2	11	52 40	~	382 50	1.3	5.2	5.9	
			02.10		002.00	11.5	46.0	52.2	
٥		٥	64.00	~	166 60	1.0	4.2	4.8	
9		,	5 04.00 % 400.00	8.9	37.2	42.5			

Rated Current	BOOST Starting Current	BOOST 8 Starting Current		
3.5A	5.0A	8.0A		

1.6A

50W

General Specifications	PGD	PGD-Ai	PGD-Ai-48	PGD-IDC				
Shaft Diameter		16 mm						
Кеуwау		5 x 5 x	25 mm					
Motor Cable Length	600 mm	1000) mm	600 mm				
Motor Controller Connection	9 Pin JST	4 Pir	n M8	5 Pin M8				
Washdown Model Available	No	Ye	es	No				
Mechanical Brake Option	Yes	N	0	No				
Ambient Temperature		-10 ~ 40°C (14 ~ 104°	°F) (No Condensation)					
Ambient Humidity		10 ~ 90% RH (N	o Condensation)					
Certifications	UI ETL Li	CE, UKCA, RoHS, IP54						
Input Voltage	24	VDC	48 VDC	24VDC				
Nominal Power Output	40W (50W in	Boost Mode)	50W	38W				
Rated Current	2.5A (3.5A in	Boost Mode)	1.6A	2.4A				
Starting Current	5A Boost Mode /	8A Boost-8 Mode	4.0A	3.0A				
Maximum Motor RPM	5800 ECO / 4200) Boost & Boost-8	7000	5800				
Minimum Motor RPM		58	80					
Minimum Duty Cycle	0.5 sec ON / (1.5 sec OFF when	0.5 sec ON /	0.5 sec OFF					
Continuous Operation	At rated load/cur	rrent in ECO Mode	No overheat at ra	ated load/current				
Compatible Controls	ConveyLinx ConveyLinxHTF ConveyLinxE ConveyLinxE-HTF E-QUBE EZ-QUBE EZ-QUBE EZ-QUBE-W EZ-QUBE-HTBF	ConveyLinx-Ai2 ConveyLinx-Ai3-24-FC ConveyLinx-Ai3-24-RC MotionLinx-Ai E-QUBE-Ai EZ-QUBE-Ai EZ-QUBE-W-Ai	ConveyLinx-Ai2-48 ConveyLinx-Ai3-48-FC	Any 3rd Party Control that provides: Pin 1: +24V Pin 2: Direction Pin 3: Gnd Pin 4: Error Pin 5: Analog Speed				





Ordering Information

Part Number Definition for PGD / PGD-Ai / PGD-Ai-48 / PGD-IDC Gear Drives





MICRO-V PULLEY ASSEMBLY AVAILABLE



Scan for More Technical Data

PDU-90 90° Right Angle Transfer

Customized design based on standardized functionality.

The **Pulse Divert Unit PDU-90** is the ideal right angle transfer that fits into standard roller conveyors without modifications. The PDU-90 utilizes all electric 24V/48V components and eliminates the need for any costly pneumatic actuators.

The PDU-90 is a highly efficient and compact right angle transer. Standardized and modular components allow for simple integration to your controls platform saving you time and money.



BENEFITS

Seamless integration in Pulseroller applications
Transfer independent from conveyor
Low profile design
High throughput
Simple maintenance

FEATURES

Modular Belt transfer
No pneumatics required
Controlled by ConveyLinx/ConveyLinx-Ai/MotionLinz
Modular design
Strong and oversized mechanical design
Optional freezer rated version

Scan for More Technical Data





Technical Data

Voltage	24V or 48V DC
Roller Pitch Options ¹	75 mm, 3", 90 mm, and 4"
Max Load	50 kg (≈110 lbs)
Belt Speed	60 m/min (≈196 ft/min)
Lift-up Stroke	15 mm (≈ 0.6")
Throughput ²	1500 / h
Minimum Dimensions	W360 x L380 (For 380 mm or ≈ 15" BF)
Maximum Dimensions	W960 x L800 (For 820 mm or ≈ 32" BF)
Ambient Temperature	-10°C ~ 40°C (14 ~ 104°F) (No condensation)
Ambient Humidity	10 ~ 90% RH (No condensation)

¹ Contact PulseRoller for irregular or non standard roller pitch
 ² Throughput can vary depending upon product size and control algorithm

Pulse PopUp 30° and 45° Diverter

The PPU is a highly efficient and compact divert solution.

PPU is offered in 45° (PPU-45) and 30° (PPU-30) and can be configured for either left or right discharge. Pulse PopUp Units (PPU-45/30) easily mount under your existing conveyor frame and take advantage of Pulseroller components, eliminating the need for any costly pneumatic actuators. Standardized and modular components allow for simple integration to your controls platform saving you time and money.



BENEFITS

Seamless integration in Pulseroller applications
Machine independent from conveyor
High throughput
Easy installation

FEATURES

Choose 30° or 45° divert
Compact design
Bolt-in installation takes minutes
Fully MDR driven (no pneumatics)
Low maintenance – no lubrication requirements
Effectively and the station of the second state

Effectively create a sortation conveyor

Technical Data

Dimensions (L x W mm)	# of Driving Wheels	Load Size Min (L x W mm)	Load Size Max (L x W mm)	Load Weight Max	Max Sorting Speed	Throughput
440 x 388 mm	4	300 x 200 mm (≈12" x 8")	600 x 450 mm (≈ 23" x 18")	30 kg (≈ 66 lbs)	Up to 90 m/min with a 75 speed code (≈ 195 ft/min)	Up to 2400/hour depending on product size
440 x 488 mm	5					
440 x 588 mm	6					
440 x 688 mm	7					

Ordering Information

Part Number Definition for PPU-45 / PPU-35 Pulse PopUp Diverter

		1		2		3	4	5		6	\bigcirc
PPU	-	4 5	-	W36L40	-	2 R	43	R	-	S	75
PULSE POPUP Family		Divert Angle		Size		Transfer Rows	Transfer Wheels	Direction		Motor Type	Speed Code
① Divert A	Angle										
	30 - 3	0°				45 - 45	ō°				
② Size											
	W36	L40 - Width	440 mm	x Length 388 mm		W36	L50 -	Width 44	40 mm	x Leng	th 488 mm
	W36	L60 - Width	440 mm	x Length 588 mm		W36	L70 -	Width 44	40 mm	x Leng	th 688 mm
③ Transfe	er Rows										
	2R - 2	2 Rows of Whe	els								
④ Transfe	r Wheel	s									
	4 3 - 4	4 Wheels x 3 V	heels			54 -5	5 Wheel	s x 4 Wh	neels		
	6 5 -	6 Wheels x 5 V	/heels			76 -7	7 Wheel	s x 6 Wh	neels		
⑤ Divert D	Direction	1									
	R - Rig	ght				L - Lef	t				
6 Motor T	уре										
	S - Se	nergy (DC24V	JST Cor	nnector)		X - Sei	nergy-Ai	-48 (DC	48V 4-	Pin M8	Connector)
	M - Se	energy-Ai (DC2	4V 4-Pii	n M8 Connector)				-			
⑦ Speed (Code										
-	75-	Standard for <i>N</i>	lotor Ty	pes S and M		45 -3	Standard	d for <i>Mo</i>	tor Typ	oe 🗙	





ConveyLinx-HTF



ConveyLinx-E

ConveyLinx

Simplified complexity. Pulseroller ConveyLinx was the first Ethernet based networked motor roller conveyor controller when it was released over a decade ago and today it still provides the standard upon which others are measured. ConveyLinx provides automatic push-button installation and configuration for fast and simple installation and commissioning of motor roller conveyor systems.

Out of the box, **ConveyLinx** provides automatic zero-pressure accumulation **(ZPA)** conveyor control. Using Pulsroller's complimentary **EasyRoll** software, you can customize and configure the built-in ZPA functionality to your application. With ConveyLinx working in ZPA mode, you can also connect your **PLC** with a simple interface to receive status as well as control product flow without having to write logic code to make the conveyor operate.

You can go a step further and change **ConveyLinx** to suspend ZPA operation and use it as a **true remote drive control** to your PLC network where **your PLC logic** can direct all of the modules' functions.

Each ConveyLinx module has the ability to communicate with **Ethernet I/P, Profinet I/O, Modbus TCP**, and **CC-Link IEF Basic** protocols.

ConveyLinx-HTF model provides **BOOST-8** performance capability as well as being **freezer rated** down to -30°C (-22°F).

ConveyLinx-E and **ConveyLinx-E-HTF** models are **ETL** marked versions that are Listed to UL specifications 61010-2 and UL 61010-2-201

BENEFITS

 Small footprint for easy installation in side frame

 4 Ethernet protocols

 Control of all motion on conveyor

 High flexible application

 Significant reduction of PLC source code

 Fast module replacement

FEATURES

CE Certified, RoHS Compliant. IP20
Option for ETL Listed (UL 6101-2 & UL 61010-2-201)
Provides control for 1 or 2 Zones
Auto detection of PNP or NPN sensors and light/ dark operate when configured for ZPA control
Single push-button Auto-Configuration
3-Port Ethernet switch with standard RJ-45 ports
9 Pin JST style header socket for motor connection
Thermal and overload motor protection
4 RJ-11/12 ports for easy plug and play connections
8 Tri-colored context sensitive LED indicators
Simultaneously recognizes Ethernet I/P, Modbus TCP, and Profinet I/O protocols on the same controller
Motor and ZPA adjustments accessible with EasyRoll Software
User programmable functionality available with

ConveyLogix Software (see Pulseroller.com for details)

ConveyLinx ERSC

Ethernet Networked Conveyor Control



	ConveyLinx	ConveyLinx-E	ConveyLinx-HTF	ConveyLinxE-HTF	
Input Voltage	21 to 28 VDc				
Rated Motor Output Current	2.5A x 2 (ECO) 3.5A x 2 (Boost & Boost-8)				
Available Starting Current	3.0A x 2 (ECO) 5.0A x 2 (Boost & Boost-8)		3.0A x 2 (ECO) 5.0A x 2 (Boost) 8.0A x 2 (Boost-8)		
Power Connection		Unpluggable 2 Pc	ole screw terminal		
Motor Connection		9 Pin 、	JST x 2		
Sensor & I/O Connection	RJ-11/12 x 4				
Network Connection	RJ-45 x 2				
Ambient Temperature	0° ~ 40°C (32° ~ 104°F) -30° ~ 40°C (-22° ~ 104°F)			-22° ~ 104°F)	
Ambient Humidity	10 ~ 90% RH (No Condensation)				
Vibration	1G or less				
	CE				
Certifications		ETL Listed to UL 61010-2 & UL 61010-2-201		ETL Listed to UL 61010-2 & UL 61010-2-201	
Available Networks	Ethernet I/P Profinet IO Modbus TCP CC-Link IEF Basic				
Configuration Software	EasyRoll or EasyRoll +				





Automatically Recognizes Multiple PLC Protocols



PLUG AND PLAY CONNECTIVITY

Plug and Play Connectivity



- RJ-11/12 Receptacle for Sensor
- RJ-11/12 Receptacle for Aux I/O
- 9 Pin JST Style Motor Plug Header
- Standard RJ-45 Ethernet Ports

Scan for More Technical Data



ConveyLinx Ai 24V ConveyLinx-Ai2, Ai3-24-FC & RC

Superior Connectivity. The ConveyLinx-Ai2 and Ai3 family of controllers offer the same network connectivity, built-in ZPA control, and PLC access as our ConveyLinx product line. What ConveyLinx-Ai2 and Ai3 models bring to the table is Ai technology for access to the intelligence inside Senergy-Ai motor engines and dual power input to separate motor power from logic power for even more system control flexibility.

ConveyLinx-Ai2 and **Ai3** models can be installed with an **IP54** ingress protection rating to expand your ability to solve applications in a wide range of environments.

ConveyLinx-Ai2 utilizes cage-clamp style power connection terminals.

ConveyLinx-Ai3-24-FC utilizes standard **ASI** style cabling for both motor and logic power and employs proven insulation displacement connections

ConveyLinx-Ai3-24-RC utilizes individual conductors for both motor and logic power and employs proven insulation displacement connections.

BENEFITS

Increase of system availability Small footprint for easy installation in side frame 4 Ethernet protocols Control of all motion on conveyor Fast and easy wiring Tool-free connection Reverse polarity protected connection Easy interchangeability

FEATURES

Ai Technology Power supply using piercing technology with Ai3 Choice of ASI cable or round cable with Ai3 Separate power supply for motors and logic IP54







ConveyLinx-Ai3-24-FC

ConveyLinx-Ai2, Ai3-24-FC & RC

Ethernet Networked Conveyor Control



	ConveyLinx-Ai2	ConveyLinx-Ai2-F	ConveyLinx-Ai3-24-FC	ConveyLinx-Ai3-24-RC		
Logic Input Voltage	18 to 28 VDc					
Motor Input Voltage	21 to 28 VDc					
Rated Motor Output Current	2.5A x 2 (ECO) 3.5A x 2 (Boost & Boost-8)					
Available Starting Current	3.0A x 2 (ECO) 5.0A x 2 (Boost) 8.0A x 2 (Boost-8)					
Power Connection	Integrated 3 Po	ole Cage Clamp	ASI Cable Insulation Displacement	2 / 4 Wire Insulation Displacement		
Motor Connection	4 Pin M8 x 2					
Sensor & I/O Connection	4 Pin M8 x 2					
Network Connection	RJ-45 x 2					
Ambient Temperature	0° ~ 40°C (32° ~ 104°F)	-30° ~ 40°C (-22° ~ 104°F)	0° ∼ 40°C (32° ∼ 104°F)			
Ambient Humidity	10 ~ 90% RH (No Condensation)					
Vibration	1G or less					
Certifications	CE ETL Listed to UL 61010-2 & UL 61010-2-201 UL Recognized to UL 61800-5-1					
Available Networks	Ethernet I/P Profinet IO Modbus TCP CC-Link IEF Basic					
Configuration Software		EasyRol	l or EasyRoll +			

Automatically Recognizes Multiple PLC Protocols



PLUG AND PLAY CONNECTIVITY

Scan for More Technical Data





ConveyLinx-Ai2-48

UNLEASH THE CAPABILITIES OF SENERGY-Ai-48



ConveyLinx-Ai3-48-FC



ConveyLinx Ai 48V ConveyLinx-Ai2-48, Ai3-48-FC

Same Smarts More Power. The ConveyLinx-Ai2-48 and Ai3-48-FC controllers offer the same network connectivity, built-in ZPA control, and PLC access as our ConveyLinx-Ai2 product line, and dishes out the extra power needed by our Senergy-Ai-48 motor rollers and PGDs.

	ConveyLinx-Ai2-48	ConveyLinx-Ai3-48-FC	
Logic Input Voltage	18 to 4	48 VDc	
Motor Input Voltage	42 to 4	48 VDc	
Rated Motor Output Current	1.6A	(50W)	
Available Starting Current	1.7 Setting: 1.9A (63W) 2.0 Setting: 2.2A (69W) 2.5 Setting: 2.7A (84W) 3.5 Setting: 3.7A (108W) 4.0 Setting: 4.0A (118W)		
Power Connection	Integrated 3 Pole Cage Clamp	ASI Cable Insulation Displacement	
Motor Connection	4 Pin M8 x 2		
Sensor & I/O Connection	4 Pin M8 x 2		
Network Connection	RJ-45 x 2		
Ambient Temperature	0° ~ 40°C (32° ~ 104°F)		
Ambient Humidity	10 ~ 90% RH (No Condensation)		
Vibration	1G or less		
Certifications	CE ETL Listed to UL 61010-2 & UL 61010-2-201 UL Recognized to UL 61800-5-1		
Available Networks	Ethernet I/P Profinet IO Modbus TCP CC-Link IEF Basic		
Configuration Software	EasyRoll+		

CE RoHS



BENEFITS

FEATURES

Fast and easy wiring Tool-free connection

Advanced power management Easy interchangeability

Choice of ASI cable with Ai3

EtherNet/IP

Modbus TCP CC-Link IE Bield

Full Ai technology

IP54

Separate power supply for motors and logic Power supply using piercing technology



RAPTOR® RSC-Ai

Fantastic Performance. The Raptor RSC-Ai controller is specifically designed for one purpose: to harness and unleash the capability of the Raptor motor drive.

Even though the RSC-Ai is a fully capable networked controller that can integrate with our ConveyLinx and ConveylInx-Ai family models; out of the box it is set up to be a stand alone controller that you can simply power up and wire discrete signals to access built in speed/ramp profiles.

With a built-in web page interface, you can modify these discretely controlled profiles without any special software or programming interface. The benefit with this is that you can use a Raptor solution in a motor roller system to replace or upgrade an existing AC drive unit that had to be AC because the older DC motor roller could not do the job.

Because the RSC-Ai can be fully integrated into any of our ConveyLinx based systems, you can use it from the start for a new system and enjoy all of the connectivity and diagnostics capabilities already available with ConveyLinx. The RSC-Ai utilizes the same PLC interfaces and structures as ConveyLinx so you can expect superior integration and commissioning results.

Another convenience for you is that the RSC-Ai can be powered by either 24V or 48V so you can get the 80W rated performance no matter your power supply voltage.

	Raptor RSC-Ai
Logic Input Voltage	18 to 48 VDc
Motor Input Voltage	18 to 48 VDc
Rated Motor Output Current	4A @ 24V 2.5A @ 48V
k Motor Output Performance	7A @ 48V for 5 sec 5.5A @ 24V for 5 sec
Power Connection	Removable 3 Pole Cage Clamp
Motor Connection	4 Pin M8
Sensor Connection	4 Pin M8 x 2
Discrete I/O	5 IN/2 OUT Removable Cage Clamp Plug
Network Connection	RJ-45 x 2
Ambient Temperature	-10° ~ 40°C (14° ~ 104°F)
Ambient Humidity 1	10 ~ 90% RH (No Condensation)
Vibration	1G or less
Certifications	CE UL Recognized to UL 61800-5-1
Available Networks	Ethernet I/P Profinet IO Modbus TCP
Configuration Software	EasyRoll+
Discrete I/O Network Connection Ambient Temperature Ambient Humidity 1 Vibration Certifications Available Networks Configuration Software	5 IN/2 OUT Removable Cage Clam RJ-45 x 2 -10° ~ 40°C (14° ~ 104°F) 10 ~ 90% RH (No Conder 1G or less CE UL Recognized to UL 61 Ethernet I/P Profinet IO Modbus TCP EasyRoll+

RoHS







Scan for More Technical Data









EQUBE-Ai



EQUBE

Simple Drive EQUBE and EQUBE-Ai

Simple Drive Control. The Pulseroller **EQUBE and EQUBE-Ai families** provide a simple and economic drive control to Senergy / Senergy-Ai motors where high performance or sophisticated network control is not required.

The EQUBE and EQUBE-Ai provide control for a single Senergy motor and utilizes ECO mode performance. These controllers are designed to be the most economical control solution for a Senergy motor roller application.

	EQUBE	EQUBE-Ai	
Input Voltage	24.0VDC +15% / - 25%		
Rated Motor Output Current	2.8	BA	
Available Starting Current	3.1	DA	
Power Connection	Unpluggable 2 Po	le ScrewTerminal	
Motor Connection	9 Pin JST	4 Pin M8	
Control Connection	Unpluggable 5 Pole Screw Terminal		
Configuration Method	DIP Switches		
Speed Selections	32		
Accel/Decel Selections	16		
Indicators	5 Colored LEDs		
Ambient Temperature	-10° ~ 40°C (15° ~ 104°F)		
Ambient Humidity	10 ~ 90% RH (No Condensation)		
Vibration	1G or less		
Certifications	CE, RoHS, UL Recognized to UL 61800-5-1		

FEATURES

Options for PNP or NPN control inputs
DIP Switch Setting for 32 available speeds
DIP Switch Setting for 16 available Accel /Decel rates
2 Digital Run signals to provide 3 speed options plus Input for Reverse
LED Indicators for Power, Run, Reverse, and Error
PI regulated Speed Control

ECO Performance Mode





Performance Drive

EZ-QUBE, EZ-QUBE-HTBF, EZ-QUBE-W & EZ-QUBE-W-Ai

Performance Drive Control. The Pulseroller **EZ-QUBE** model controller adds Senergy **BOOST** mode performance as well as the addition of **0-10V Analog** speed control input.

Even More Performance Drive Control. The Pulseroller **EZ-QUBE-HTBF** model has all of the features of the EZ-QUBE plus it provides Senergy **BOOST-8** performance, control for Senergy motor rollers and PGDs with mechanical holding brakes, and it **freezer rated** down to -25°C (-13°F). The EZ-QUBE-HTBF also has dual mounting capability to be a direct replacement to Pulseroller's legacy EZ-24 family controllers.

Performance Control with Wireless Connectivity. Pulseroller EZ-QUBE-W and EZ-QUBE-W-Ai models have eliminated the configuration DIP switches and replaced them with a Bluetooth interface to allow you to configure all module settings from the convenience of your phone or tablet device. Complete technical manual for EZ-QUBE



	EZ-QUBE	EZ-QUBE-HTBF	EZ-QUBE-W	EZ-QUBE-W-Ai		
Input Voltage		24.0VDC +15% / - 25%				
Rated Motor Output Current	2.5A (ECO) 3.5A (Boost)	2.5A (ECO) 3.5A (Boost & Boost-8)				
Available Starting Current	3.0A (ECO) 5.0A (Boost)	3.0A (ECO) 5.0A (Boost) 8.0A (Boost-8)	3.0A (EC0) 3.0A (EC0) 5.0A (Boost) 5.0A (Boost) 8.0A (Boost-8) 7.0A (Boost-7)			
Power Connection	Unpluggable 2 Pole Cage Clamp Terminal					
Motor Connection	9 Pin JST 4 Pin M8					
Control Connection	Unpluggable 7 Pole Cage Clamp Terminal					
Configuration Method	DIP Sv	witches Mobile App via Bluetooth				
Speed Selections	32	31 plus 0-10V Analog	User selectable p	lus 0-10V Analog		
Accel/Decel Selections	1	16 User Selectable via App				
Indicators	6 Color	6 Colored LEDs		4 Colored LEDs		
Ambient Temperature	-10° ~ 40°C (15° ~ 104°F)	~ 40°C (15° ~ 104°F) -25° ~ 40°C (-13° ~ 104°F) -10° ~ 40°C (15° ~ 104°		(15° ~ 104°F)		
Ambient Humidity	10 ~ 90% RH (No Condensation)					
Vibration	1G or less					
Certifications	CE, RoHS, UL Recognized to UL 61800-5-1					





EZ-QUBE



EZ-QUBE-HTBF



MOTIONLINX

Integrator solutions. Pulseroller offers several products designed more for the integrator in mind and not just the conveyor manufacturer or distributor. These products are meant to be used in conjunction primarily with our **ConveyLinx/ConveyLinx-Ai** family network based control systems or for specific networked applications.

	MotionLinx-Ai	MotionLinx-IO	ConveyLinx-IO	
Logic Input Voltage	18 to 28 VDc			
Motor Input Voltage	21 to 28 VDc			
Rated Motor Output Current	2.5A x 2 (ECO) 3.5A x 2 (Boost & Boost-8)	N/A		
Available Starting Current	3.0A x 2 (ECO) 5.0A x 2 (Boost) 8.0A x 2 (Boost-8)	(ECO) Boost) N/A Boost-8)		
Power Connection	Integrated 3 Pole Cage Clamp			
Motor Connection	4 Pin M8 x 2	N/A		
Sensor & I/O Connection	4 Pin M8 x 2 4 Pin M8 x 4			
Network Connection	RJ-45 x 2			
Ambient Temperature	0° ~ 40°C (32° ~ 104°F)			
Ambient Humidity	10 ~ 90% RH (No Condensation)			
Vibration	1G or less			
Certifications	CE ETL Listed to UL 61010-2 & UL 61010-2-201 UL Recognized to UL 61800-5-1			
Available Networks	EtherCAT		Ethernet I/P Profinet IO Modbus TCP CC-Link IEF Basic	
Configuration Software	N/A EasyRoll or F			

RoHS

- 01 MotionLinx-Ai is a 2 zone motor controller with the exact same footprint, power and device connections, and motor performance capability as the **ConveyLinx-Ai2** model with the exception that it is equipped to operate only on an **EtherCAT** network with a master controller.
- 02 MotionLinx-IO is a configurable 8 digital input or 8 digital output (or any combination) I/O block that operates on only an EtherCAT network with a master controller. The MotionLinx-IO has the same footprint, power, M8 IO connections as the ConveyLinx-Ai2 model.
- 03 ConveyLinx-IO is a configurable 8 digital input or 8 digital output (or any combination) I/O block that operates on the same network protocols as ConveyLinx-Ai2. The ConveyLinx-IO has the same footprint, power, and M8 IO connections as the ConveyLinx-Ai2 model.



Accessories

MDR | Power

- Pre-assembled units ready for field installation
- \bullet Uses PULS brand QS/QT/XT Model power supplies
- Available in 120V and 480V Input versions
- Available in 10A, 20A, and 40A Output versions
- ${\boldsymbol{\cdot}}$ Polycarbonate enclosure with convection cooling
- Optional Lockable Disconnect Switch
- Optional UL Assembly

ConveySense

- Sensor & reflector preassembled to mounting brackets
- RJ-11 and M8 connectivity options
- Diffuse between roller style available
- 1M and 2M cable length options available

Motor Extension Cables

- Pre-molded for 9-Pin JST Style Connectors
- Available in multiple lengths
- For use with standard Senergy and legacy Pulseroller
- M8 style available for Senergy-Ai motors

Ethernet Patch Cables

- Standard CAT-5 with RJ-45 Plugs
- Available in multiple lengths
- For use with all ConveyLinx Networked modules

Power Wiring Harnesses

- Pre-assembled 2 wire 24V power bus with 20A capacity
- Designed to fit within the conveyor side frame channel
- Mating plugs at each end to connect conveyor sections together
- Separate Tap Kits available to connect power bus to ConveyLinx module









IOX-2 Kit

 an accessory of convenience for integrators who need to easily split the signals of the M8 Sensor Port on any of the ConveyLinx/MotionLinx models to allow for quick field installation and wire terminations for non-connectorized devices



SE Kit

 an accessory of convenience for integrators who need to easily split out the signals from either the Sensor or Control RJ-12 ports on any of the ConveyLinx JST style models to allow for quick field installation and wire terminations for the devices



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WWW.PULSEROLLER.COM

SALES@PULSEROLLER.COM

SUPPORT@PULSEROLLER.COM

800-764-6356

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The information contained in this catalog is subject to change without notice.