

## Optec QuickSync and DirectSync Focus Motors

---

*QuickSync motors replace the coarse and fine focus knobs on the right side of the focuser.*

---



---

*DirectSync motors replace only the coarse focus knob on the left side of the focuser.*

---



199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)

## Optec QuickSync and DirectSync Focus Motors

**DirectSync SVX30**  
includes ThirdLynx control circuit



**DirectSync SV30**  
requires FocusLynx control hub



---

*Original QuickSync and DirectSync motors REQUIRE the FocusLynx hub and have an 8-pin RJ45 type connector.*

---

---

*QuickSync and DirectSync motors with an "X" in the name include the integrated ThirdLynx control circuit and have USB and 12-volt power sockets.*

---



199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)

## Optec QuickSync and DirectSync Focus Motors

<i>Telescope Focuser Compatibility</i>	<i>Original DirectSync &amp; QuickSync motors (REQUIRES FocusLynx hub)</i>	<i>New "X" Series DirectSync &amp; QuickSync motor (Integrated ThirdLynx Controller)</i>
Takahashi MEF dual-speed focuser	#19765 – QuickSync MEF motor	#19965 – QuickSync TKX motor
SharpStar brand focusers	CALL	#19966 – QuickSync SSX motor
Stellarvue 2-inch focusers (older models)	#19768 – QuickSync SV20 motor	#19968 – QuickSync SVX20 motor
FeatherTouch 2-inch Rack & Pinion focusers	#19770 – QuickSync FT20R motor	#19970 – QuickSync FTX20R motor
FeatherTouch FTF20xx series Crayford focusers	#19771 – QuickSync FT20 motor	#19971 – QuickSync FTX20 motor
FeatherTouch FTF27xx, FTF30xx series focusers	#19772 – QuickSync FT30 motor	#19972 – QuickSync FTX30 motor
FeatherTouch FTF3545 series focusers	#19773 – QuickSync FT40 motor	#19973 – QuickSync FTX40 motor
Meade ACF f/8 built-in "reverse Crayford"	#19775 – DirectSync ACF motor	#19975 – DirectSync ACFX motor
Meade Apochromat focuser (fits many others)	#19776 – DirectSync APO motor	#19976 – DirectSync APX25 motor
Stellarvue 2-1/2" and 3" focusers	#19778 – DirectSync SV motor	#19978 – DirectSync SVX30 motor
Stellarvue 3-1/2" focuser	#19780 – DirectSync SV35 motor	#19980 – DirectSync SVX35 motor
Astro-Tech, Teleskop Service, some William Optics	CALL	#19981 – DirectSync ATX25 motor
Explore Scientific 2-1/2" Hex focuser	#19782 – DirectSync ES25 motor	#19982 – DirectSync ESX25 motor
Explore Scientific 3" Hex focuser	#19783 – DirectSync ES30 motor	#19983 – DirectSync ESX30 motor
Celestron RASA 8" native focuser	n/a	#19984 – DirectSync CRX8 motor
SkyWatcher EvoLUX focuser	CALL	#19986 – DirectSync SWLX25 motor
SkyWatcher Esprit 100, 120, 150 focusre	#19788 – DirectSync SW30 motor	#19988 – DirectSync SWX30 motor

*Optec Focus Motors current as of June 2022*



199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
 Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)

## Optec QuickSync and DirectSync Focus Motors

	<i>Original DirectSync &amp; QuickSync motors</i>	<i>New "X" Series DirectSync &amp; QuickSync motor</i>	
<i>Best-in-Class clutch mechanism Control System</i>	Yes FocusLynx Dual-Focuser hub (required)	Yes ThirdLynx Integrated Controller (All-in_one)	
<i>Connector</i>	RJ45 socket	USB B socket and 2.1x5.5mm power plug	
<i>Connectivity to control computer</i>			
<i>Serial connection</i>	Yes	Yes*	<i>*serial with USB/CDC</i>
<i>USB</i>	Yes*	Yes	<i>*using USB/Serial cable</i>
<i>Network</i>	Yes	No	
<i>WiFi</i>	Yes*	No	<i>*optional WiFi kit</i>
<i>Hand Control option</i>	Yes	No	
<i>Power Supply</i>	powered by FocusLynx hub	12VDC power required (included in package)	<i>ThirdLynx motors require an external 12VDC power source</i>
<i>ASCOM driver</i>	Yes	Yes	<i>Both use FocusLynx drivers</i>
<i>ALPACA cross-platform driver</i>	Yes	Yes	
<i>TheSkyX X2 driver</i>	Yes	Yes	
<i>INDI support</i>	Yes	Yes	
<i>Stepper motor</i>	Nippon 25mm bi-polar motor	Nippon 25mm bi-polar motor	
<i>Step resolution</i>	approx. 1 micron / step	approx. 1 micron / step	
<i>Overall size (diameter)</i>	48mm (FT40)	48mm (FTX40)	<i>widest part of clamp</i>
<i>Motor length</i>	87mm (FT40)	93mm (FTX40)	
<i>Weight</i>	175g (FT40)	185g (FTX40)	

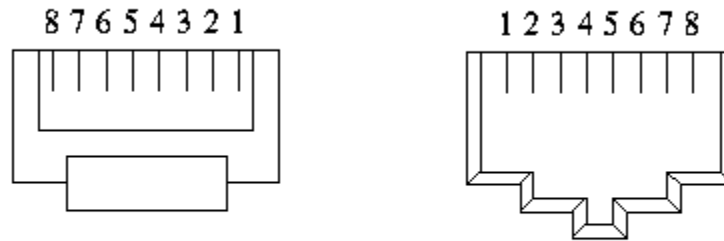


199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
 Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)

## Optec QuickSync and DirectSync Focus Motors

### Wiring Guide for FocusLynx QuickSync and DirectSync motors

The original QuickSync and DirectSync motors were designed for use exclusively with the FocusLynx control hub. However, other bipolar motor controllers can be used if the suggested wiring diagram below is followed. Each motor has an RJ45 jack or socket with pins numbered as shown below.



*End view of RJ45 Plug*

*Looking into an RJ45 Jack*

<b>RJ45 Plug Pin Number</b>	<b>TIA/EIA T-568B Wire Color (typical)</b>	<b>Recommended Wiring (Bipolar Stepper Controller)</b>	<b>RJ45 Jack Pin Number</b>	<b>QuickSync/DirectSync Function</b>
1	Orange/White	Not Connected	1	GROUND
2	Orange	Not Connected	2	Not Connected
3	Green/White	COIL 1-A	3	COIL 1-A
4	Blue	Not Connected	4	5V INPUT
5	Blue/White	Not Connected	5	TEMPERATURE OUTPUT
6	Green	COIL 1-B	6	COIL 1-B
7	Brown/White	COIL 2-A	7	COIL 2-A
8	Brown	COIL 2-B	8	COIL 2-B



199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
 Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)

## Optec QuickSync and DirectSync Focus Motors



199 Smith Street · Lowell, Michigan 49331 · U.S.A.  
Telephone: 616-897-9351 · Fax: (616) 897-8229 · Toll Free: 888-488-0381  
[sales@optecinc.com](mailto:sales@optecinc.com) · <http://www.optecinc.com> · [www.optecinc.us](http://www.optecinc.us)