# FRAXION®4SLIM **DEEP REGRESS**

raxion4 Slim incorporates an LED, optic, and housing into a single complete unit featuring a removable baffle and trim. Conversely, Fraxion4 standard offers a traditional housing and separate trim assembly.

PROJECT NAME:	TYPE:





### **ORDERING INFORMATION - DOWNLIGHT / HOUSING**

TITLE	
	JA8-2019 INDICATED BY SHADING
74	IAS-2019 INDICATED BY SHADING
	JAO-2017 INDICATED DI SHADINO
and the same	

(WH)

(AG) White Satin Silver Powder Coat Powder Coat (AU)

(BB) Cashmere Gold Burnt Bronze Powder Coat Powder Coat

(BK) Black

Powder Coat

# **PART NUMBER NOTES**

- Housing and trim ship as e.g., F4RMAD1-WHWH-90C14A2-3X1-AN4 Remote driver ships with fixture as e.g., PSF4-RMT-90C-14A-1L23





#### **ACCESSORIES**

#### **ALTERNATE EFFECTS DEVICES**

Dry/Damp location only.

Wet location requires alternate baffle.

☐ CGL-F4R-2 Clear Glass Lens\*

\*(Not available for Warm Dim)

□ FGL-F4R-2 Frosted Glass Lens

□ SFL-F4R-2 Soft Focus Lens
□ FSFL-F4R-2 Frosted Soft Focus Lens
□ WDL-F4R-2 Wide Distribution Lens\*

\*(Required and only available for 85° beam spread)

☐ FLSL-F4R-2 Frosted Linear Spread Lens

#### **ADJUSTABLE HCL ASSEMBLY**

Dry / Damp location only.

□ **OLR-F3RS1-SFL-HCL** Adjustable Honeycomb

Louver and Soft Focus Lens\*

\*(Not available for Wet location or Airtight housings)

#### REPLACEMENT BAFFLE ASSEMBLY (INCLUDES EFFECTS DEVICE)

ASSEMBLY		SHAPE	TRIM	RATING		FLANGE FINISH				EFFECTS DEVICE
RBA	-			1	_		-	1	_	
REPLACEMENT BAFFLE ASSEMBLY		F4R Round F4S Square	FAD Slandard Flange MAD Microflange TAD Trimless  FAD Standard Flange Transitional Baifle MAD Microflange Transitional Baifle	1 Dry / Damp 2 Wet		WH White BK Black PR Primer AU Cashmere Gold AG Satin Silver BB Burnt Bronze CF Custom Finish*				Leave blank for standard Soft Focus Lens  CGL Clear Glass Lens *  *(Not available for Warm Dim) FGL Frosted Glass Lens FSFL Frosted Soft Focus Lens
			TAD Trimless Transitional Baffle			* (Consult Factory)				WDL Wide Distribution Lens *  *(Required and only available for 85° beam spread)  FLSL Frosted Linear Spread Lens

#### STATIC WHITE AND WARM DIM REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

□ **RO-50-15-2** 15° optic

□ **R0-50-22-2** 22° optic □ **R0-50-40-2** 40° optic

□ **RO-50-60-2** 60° optic

#### **TUNABLE WHITE REPLACEMENT OPTICS**

Interchangeable optics accessible through fixture aperture.

□ **RO-50-22-3** 22° optic

□ **RO-50-40-3** 40° optic

□ **RO-50-60-3** 60° optic

#### REPLACEMENT SUCTION TOOL

One included with every six fixtures designated Wet location.

☐ **F4-T00L-SUCTION** Allows for removal of baffle with Wet location

### TG BRACKET ASSEMBLY

Supplied with ceiling thickness "T" and recommended for installations in T-Grid and furring channel up to 1.5" tall. Available for ceiling thicknesses from 0.50" - 1.00".

☐ DHA-TG-KIT

#### HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum.

□ FRX-HBE-46 Extender, Hanger Bar

#### **EMERGENCY LIGHTING - REMOTE MOUNT ONLY**

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

☐ **EMB-S-20/25-120/277-LEDX** 20/25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable

 □ EMB-S-100-120-LEDX
 100 watt max capacity, 120 VAC 60Hz, Dimmable

 □ EMB-S-100-277-LEDX
 100 watt max capacity, 277 VAC 60Hz, Dimmable

 □ EMB-S-250-120/277-LEDX
 250 watt max capacity, 120 or 277 VAC 60Hz, Dimmable

### PERFORMANCE - 3000K

LUMEN	WATTAGE	10° 0 No soft fo		15° 0 SOFT FOC		22° 0 SOFT FOO		40° 0 SOFT FOO		60° 0 SOFT FOO		85° 0 WIDE DISTRIE	
PACKAGE	WATTAGE	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80C12A	10	698	48 (14W)	848	84	590	59	796	79	821	82	640	64
80C16A	14	-	-	1158	82	812	58	1096	78	1130	80	882	63
80C23A	21	-	1	1597	76	1118	53	1508	71	1555	74	1213	57
90C10A	10	592	41 (14W)	701	70	507	50	684	68	705	70	550	55
90C14A	14	-	-	957	68	694	49	937	66	966	69	753	53
90C19A	21	-	-	1320	62	951	45	1283	61	1323	63	1032	49
97C10A	10	546	38 (14W)	639	63	451	45	609	61	628	62	490	49
		040	00 (1411)										
97C12A	14	-	-	872	62	618	44	834	60	860	61	671	47
97C17A	21	-	-	1203	57	854	40	1152	55	1188	56	927	44
90W11A	14	-	-	971	69	826	59	924	66	930	66	765	54
90W12A	14	-	-	1092	78	929	66	1039	74	1046	74	860	61
90T10A	14	-	-	-	-	547	34	721	45	785	49	612	38
90T14A	22	-	-	-	-	763	32	1015	42	1105	46	862	36

оитрит м	ULTIPLIER
ССТ	CCT SCALE
2200K (Consult factory for JA8 details)	0.800
2700K	0.957
3000K	1.000
3500K	1.019
4000K	1.030

LIGHT LOSS FAC	TOR MULTIPLIER
NO LENS	1.05
CGL	1.00
SFL	1.00
FGL	0.90
FSFL	0.87
FLSL	0.83
WDL	0.78

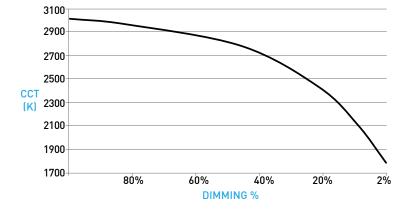


### **JA8-2019 INDICATED BY SHADING**

# WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

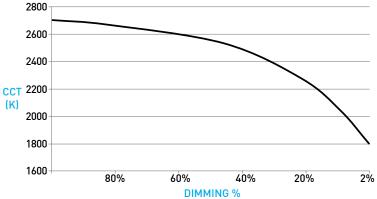
### STANDARD WARM DIM PROFILE

90W12A 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	1046	836	732	523	209	104	20
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	74	74	74	74	74	74	74



#### WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

90W11A 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2650	2620	2520	2180	1950	1800
Light Output (Lm)	930	744	651	465	186	93	18
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	66	66	66	66	66	66	66



reserves the right to change or withdraw specifications without prior notice.

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### **DOWNLIGHT / HOUSING**

#### **A** ADJUSTABILITY

Aiming mechanism is integral to the housing, providing hot-aim tilt up to 40° and 365° rotation. Sliding pivot point optimizes center beam, ensuring unclipped beam of 15° at 40° tilt and 25° at 30° tilt. 1° tilt increments with 5° indicators, tilt guide included (see A) for section view).

Integral LED module design enables field service / replacement through housing aperture.

#### OPTIC

Proprietary optic integrates Reflection, Refraction and TIR offering 10°, 15°, 22°, 40° & 60° beams.

#### **11** STANDARD FLANGE PROFILE

Installed after ceiling is complete. Requires 4.625" diameter cutout. Provides 0.86" total contractor (goof) allowance with 0.50" flange. Thickness measures 0.06". Wet location features integral silicone gasket.

#### MICROFLANGE PROFILE

Installed after ceiling is complete. Requires 4.625" diameter cutout. Provides 0.42" total contractor (goof) allowance with 0.28" flange. Thickness measures 0.06". Wet location features integral silicone gasket.

#### TRIMLESS PROFILE

Installs totally flush with the ceiling with no visible trim. Appliqué includes screws for mounting and has 0.06" plaster stop. Not recommended for stucco applications.

#### EFFECTS DEVICES

Soft focus lens included and sealed in Wet location option. Fixture is limited to 1 lens. Suction tool provided for removal of wet location baffles.

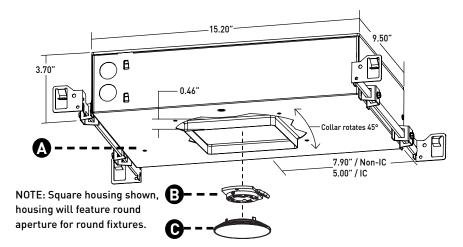
#### ROUND BAFFLE

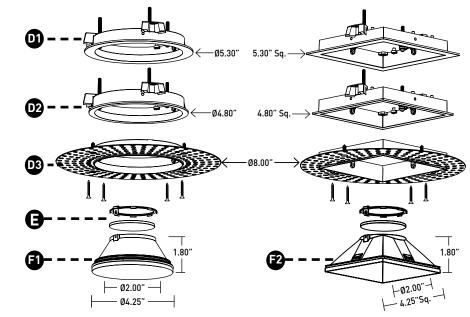
Die-cast deep removable baffle provides easy access to tilting mechanism and features 60° glare cutoff. Minimizes aperture glare and conceals view into housing; includes silicone gasket.

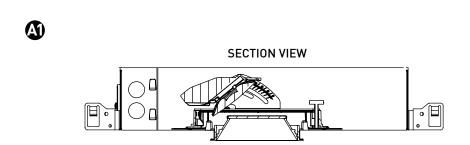
#### TRANSITIONAL BAFFLE

Die-cast deep removable baffle provides easy access to tilting mechanism and features 60° glare cutoff. Transitions from square aperture at ceiling plane to round aperture at light source. Minimizes aperture glare and conceals view into housing; includes silicone gasket.

### **DIMENSIONS / DRAWINGS**







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G TRIMLESS APPLIQUÉ DETAIL

Integrated appliqué for plaster floating directly to baffle.

TG BRACKET ASSEMBLY

Adjustable height bracket assembly provided with ceiling thickness "T" and recommended for installations in T-Grid and with furring channel. Hanger bars are installed to adjustable bracket. Allows housing to be raised and lowered; ceiling thickness remains 0.5" to 1.0" max.

#### IC HOUSING

- For IC ceilings.
- CCEA, Airtight and Title 24 (JA8) listed.
- Accommodates max 1711 delivered lumens.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

#### NIC HOUSING

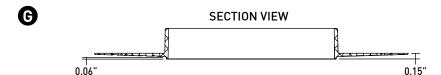
- Minimum 0.50" setback from combustible and non-combustible materials on all sides and top of housing.
- Minimum 3.00" setback from insulation material having max R-Value 30 on all sides and top of housing.
- Minimum 6.00" setback from polycell spray foam insulation having max R-Value 60.

#### REMOTE POWER SUPPLY

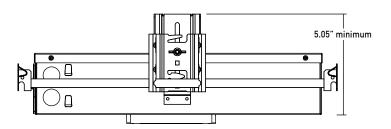
Provided with install Types "V", "W" and "D". Remote power supply provides additional driver options. See page 6 for maximum allowable secondary run lengths between PSF4-RMT and fixture. Must be installed in an accessible location.

#### **HOUSING NOTES**

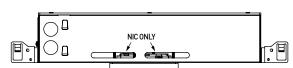
- Do not install in environments where ambient temperatures exceed 40°C (104°F) for NIC configurations, or 10W and 14W IC configurations.
- Do not install in environments where ambient temperatures exceed 25°C (77°F) 21W and 22W IC configurations.
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars fitted to short side of housing, and long side of Low Flux housings; extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum with FRX-HBE-46 kit.
- Hanger bars and brackets add 4.00" to the overall dimension, but are exclusive of the setback requirements.
- Housings for round trims feature a round aperture housing collar, and for square trims, a square housing collar, accommodating ceiling thicknesses between 0.50" and 1.00".



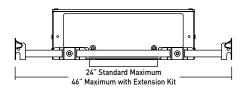




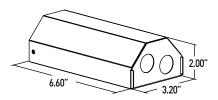




NIC HAS SAME DIMENSIONS AS IC AND FEATURES VENTS ON LONG SIDE









#### **TECHNICAL**

#### CONSTRUCTION

Downlight: Painted finishes are granulated powder coat.

Housing: Aluminum and 22 Gauge galvanized steel. Extruded aluminum

housing panel to act as heat-sink.

Remote Power Supply: 22 Gauge galvanized steel.

Appliqué: Zinc Alloy

# STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2200K, 2700K, 3000K, 3500K and 4000K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

#### WARM DIM LED



3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

#### TUNABLE WHITE LED 🕕



5-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K. Average rated lamp life of 50,000 hours. LED and driver assemblies are fieldreplaceable.

#### POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	El	LV	EC	00			0-1	10V				DALI	
Power Supply	TR2	L23	LH1	LP1	AN4	LN2	EA2	LA2	DG1	DL1	ED1	LD1	DD1
Minimum °C	-20 °C	0°C	0°C	0°C	-20 °C	-20 °C	-20°C	-20 °C					
Maximum °C	40°C	40 °C	40 °C	40 °C	40°C	40 °C	40 °C	40°C	40°C	40 °C	40 °C	40°C	40°C
Dimming %	2.0%	1.0%	1.0%	0.1%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For TR2, L23, LH1, LP1, AN4, EA2 and LA2 drivers consult chart on page 7 to confirm appropriate dimming curve for compatibility with selected control.

#### MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

		٧	VIRE AW	G	
DRIVER	12	14	16	18	20
TR2, AN4, LN2	285	180'	113′	71'	45'
L23, LH1, LP1	60'	40'	25'	15'	-
EA2, LA2, ED1, LD1, DG1, DL1, DD1	-	-	118'	72	46'

#### LISTING

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations. CCEA CCEA, Airtight and Title 24 JA8-2019 Listed.

U.S. Patent: 10.317.066

#### **BUY AMERICAN ACT**

All Fraxion4 Slim Deep Regress Adjustable configurations are Buy American Act compliant.

## **DECLARE**

LBC Red List Approved.

#### WEIGHT

Fixture - 8.8 lbs max Remote Driver - 1.4 lbs

#### LIMITED WARRANTY

Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller and conditional upon the use of manufacturer-supplied power supply. Consult website for full warranty terms and conditions.

#### **CHANGE LOG**

- 1. 01/12/2021: ADDED 2200K, 2700K-1800K WARM DIM AND 10 DEGREE OPTIC OFFERINGS.
- 2. 04/30/2021: REMOVED QUICK SHIP.
- 3. 11/08/2021: ADDED LP1 DRIVER OFFERING.
- 4. 11/08/2021: REMOVED IC HOUSING OFFERING FOR 90T14A.
- 5. 06/30/2022: UPDATED HOUSING APERTURE LOCATION.
- 6. 10/17/2022: REMOVED 90W13A 3200K-1800K WARM DIM AND ADDED 90W12A 3000K-1800K WARM DIM.
- 7. 04/26/2023: ADDED DECLARE LBC RED LIST APPROVED.
- 8. 04/26/2023: ADDED -28 ADJUSTABLE HCL / SFL EFFECTS DEVICE.





### **DIMMING COMPATIBILITY**

#### PHILIPS DRIVER COMPATIBILITY

Power supply TR2 Manufacturer	Family/Model #
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM
Power supply AN4 Manufacturer	Family/Model #
Lutron Electronics	DVTV plus PP-DV
	- · · · · F · · · · · · ·
Lutron Electronics	DVSCTV plus PP-DV
Lutron Electronics Lutron Electronics	<u>'</u>
	DVSCTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV DVSTV
Lutron Electronics Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV
Lutron Electronics Lutron Electronics Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI
Lutron Electronics Lutron Electronics Lutron Electronics Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI
Lutron Electronics Lutron Electronics Lutron Electronics Lutron Electronics Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI QSGR-XE plus GRX-TVI
Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI QSGR-XE plus GRX-TVI NFTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI QSGR-XE plus GRX-TVI NFTV plus PP-DV NTSTV
Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI QSGR-XE plus GRX-TVI NFTV plus PP-DV NTSTV RMJ-5T
Lutron Electronics	DVSCTV plus PP-DV DVSTV DVSCSTV QSGRJ-XP plus GRX-TVI QSGRJ-XE plus GRX-TVI QSGR-XE plus GRX-TVI NFTV plus PP-DV NTSTV RMJ-5T RMJS-8T

#### **LUTRON DRIVER COMPATIBILITY**

Power supply L23 Lutron Product Family	Part No.
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-
GRAFIK T™ CL® dimmer	GT-250M- GTJ-250M-
HomeWorks® QS adaptive dimmer	HQRD-6NA-
HomeWorks® QS 600 W dimmer	HQRD-6ND-
HomeWorks® QS 1000 W dimmer	HQRD-10ND-
RadioRA® 2 adaptive dimmer	RRD-6NA-
RadioRA® 2 1000 W dimmer	RRD-10ND
myRoom <sup>™</sup> DIN power module	MQSE-4A1-D
HomeWorks® QS DIN power module	LQSE-4A1-D
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120
HomeWorks® wallbox power module	HWI-WPM-6D-120
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-
GRAFIK Eye® 3000 control unit	GRX-3100- GRX-3500-
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120 LP-RPM-4U-120
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120
GP dimming panels	Various
Ariadni CL 250W dimmer	AYCL-253P-
Diva CL 250W dimmer	DVCL-253P- DCSCCL-253P-
Nova T CL 250W dimmer	NTCL-250-
Power supply LH1 & LP1 Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-EC0
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) QSGRE
Quantum Hub	QP22C
Quantum Hub	QP24C
Quantum Hub	QP26C
Quantum Hub	QP28C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D

#### eldoLED DRIVER COMPATIBILITY

Power supply <b>EA2 Manufacturer</b>	Family/Model #
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Synergy	ISD BC
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-A08
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
Power supply <b>LA2 Manufacturer</b>	Family/Model #
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Sensor Switch	nIO EZ
ABB	SD/S 2.16.1



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