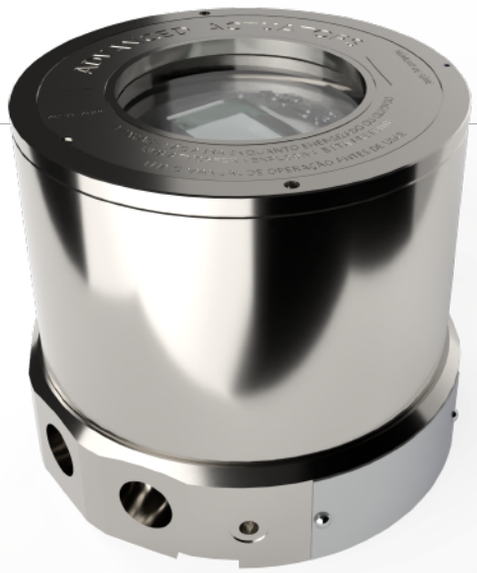
ADVANCED ACTUATORS

+44 (0) 1535 655151
sales@advanced-actuators.com

GLOBAL LEADERS IN THE DESIGN & MANUFACTURE OF PRECISION VALVE CONTROL SOLUTIONS & INSTRUMENTATION

HYTRACK®

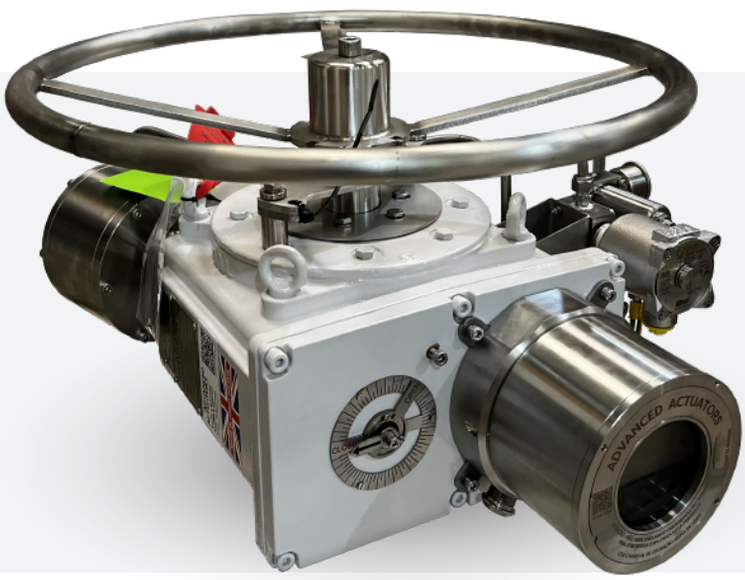
[Ex d] 4-20mA POSITION TRANSMITTER (A-HR)



HYTRACK® is our feedback transmitter, and delivers fast, high-resolution positional data for most actuators.

Designed for measuring rotary position up to 360 degrees, they can also be fitted with a variety of limit switches and with digital communications such as HART for diagnostic purposes.

With a rugged 316L stainless steel enclosure, it is suitable for numerous harsh applications, and provide reliable and precise feedback.



KEY FEATURES

- Simple end position calibration, 0 to 360°
- Mechanical & Non-Contact limit switch options
- Visual indicator (custom options available)
- Digital Option: HART 7
- 316L Stainless Steel Housing
- 12-Bit Contactless sensor
- 24 V DC - 4-20 mA Loop Powered
- IP66 Ingress Protection / NEMA 4X

Our positioners and position transmitters feature magnetic-type buttons, ensuring that the integrity of hazardous environment enclosures can be maintained.

Mechanical Position Indicator

FOR ROTARY ACTUATORS

(OPTIONAL)



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SPECIFICATIONS (A-HR)

HYTRACK®

MECHANICAL & ENVIRONMENTAL

HOUSING MATERIAL	SS316L
APPROX. WEIGHT	9 kg
DIMENSIONS	Ø150mm x 135mm
ENTRY THREAD	3 x M20 x 1.5P (Option: 3 x ½" NPT)
STORAGE TEMP.	-40°C to 100°C
AMBIENT TEMP.	-40°C to 70°C
INGRESS PROTECTION	IP66 / NEMA 4X

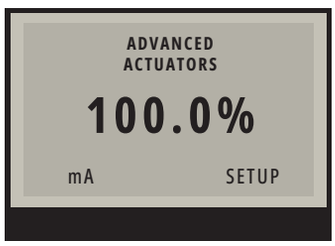
HART

SIGNAL TYPE	4-20 mA + Digital
UNIVERSAL COMMANDS	Supported
COMMON PRACTICE	19 - Application requires common practice commands for calibration
DEVICE SPECIFIC	26 - Used for internal configuration
HART REVISION	7
DEVICE DESCRIPTION	Only Generic Required

LCD DISPLAY

54.6 x 42.2 x 4.48 mm, Viewable 50.6 x 31.0 mm,
Active 46.577 x 27.697 mm, 128 x 64 Pixels





HAZARDOUS AREA

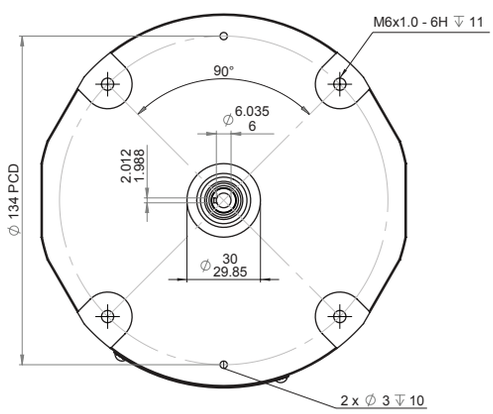
EX MARKINGS	II 2 G Ex db IIC T6 Gb	
	II 2 D Ex tb IIIC T85°C Db	
TA	-40°C to 70°C	
ATEX	22 ATEX 1354 X	*ExVeritas*
IECEX	EXV 22.0040 X	*ExVeritas*
UK EX	22 UKEX 1355 X	*ExVeritas*
INMETRO	CPEx 24.1587 X	*ExVeritas*
NOBO		*ExVeritas UK*
N. AMERICAN	CSA80210798	*CSA*

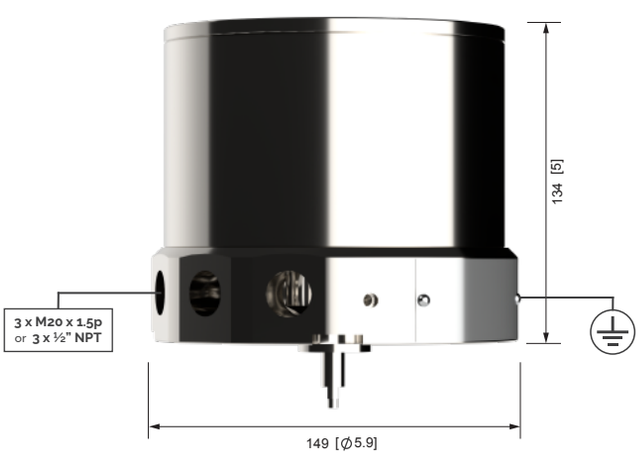
ELECTRICAL

SENSOR TYPE	12-Bit Contactless
HYSTERESIS	< 0.048 %
SWITCH TYPE	Mechanical (Std) or Proximity
SAMPLING RATE	150 µs
OUTPUT RESPONSE TIME	20 ms
OPERATING VOLTAGE	24 V DC
MAXIMUM LOAD	500 Ω
POWER CONSUMPTION	0.04 W
CONNECTION TYPE	2-Wire Loop Powered

MOUNTING & SHAFT DETAIL

MOUNTING: ■ Namur Shaft ■ F05/F08 ISO 5211





IMAGES ARE REPRESENTATIVE ONLY AND SUBJECT TO CHANGE

[Ex d] FEEDBACK, SWITCHING & INDICATOR VARIANTS (A-HR)

HYTRACK®

COMMON CONFIGURATIONS:

M20 or 3 x ½-inch NPT electrical entries, hazardous-area certification and NAMUR-compatible switching, where applicable.

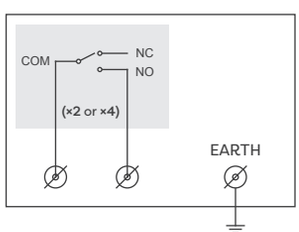
FEEDBACK/OUTPUT	SWITCH TYPE	MECHANICAL INDICATOR	*2-SWITCH* MODEL NO.	*4-SWITCH* MODEL NO.
Switches Only	Mechanical	✗ No	**A-HR-S2M** *XXX* **-522**	**A-HR-S4M** *XXX* **-522**
Switches Only	Mechanical	✓ Yes	**A-HR-S2M** *XXX* **-623**	**A-HR-S4M** *XXX* **-623**
Switches Only	Proximity	✗ No	**A-HR-S2P** *XXX* **-522**	**A-HR-S4P** *XXX* **-522**
Switches Only	Proximity	✓ Yes	**A-HR-S2P** *XXX* **-623**	**A-HR-S4P** *XXX* **-623**
4-20 mA + Switches	Mechanical	✗ No	**A-HR-FSH2M** *XXX* **-522**	**A-HR-FSH4M** *XXX* **-522**
4-20 mA + Switches	Mechanical	✓ Yes	**A-HR-FSH2M** *XXX* **-623**	**A-HR-FSH4M** *XXX* **-623**
4-20 mA + Switches	Proximity	✗ No	**A-HR-FSH2P** *XXX* **-522**	**A-HR-FSH4P** *XXX* **-522**
4-20 mA + Switches	Proximity	✓ Yes	**A-HR-FSH2P** *XXX* **-623**	**A-HR-FSH4P** *XXX* **-623**

XXX DENOTES PLACEHOLDER FOR CUSTOM CONFIGURATION

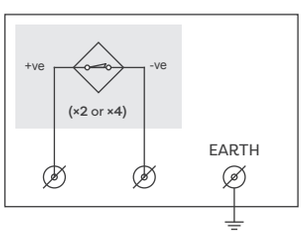
TYPICAL CONNECTION SCHEMATICS:

(Other and customised configurations available on request)

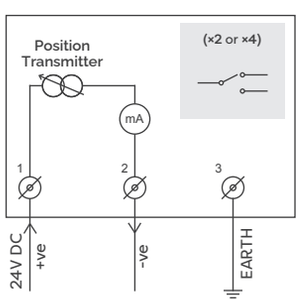
MECHANICAL SWITCHES ONLY



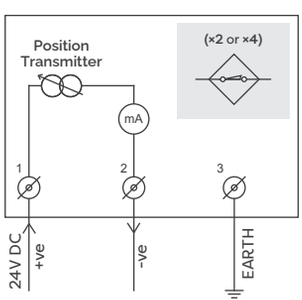
PROXIMITY SWITCHES ONLY



4-20 MA + MECHANICAL SWITCHES



4-20 MA + PROXIMITY SWITCHES



MECHANICAL POSITION INDICATOR

FOR ROTARY ACTUATORS
(OPTIONAL)



PLATFORM APPROVALS:

IMAGES ARE REPRESENTATIVE ONLY. FINAL MODEL NUMBER, CERTIFICATION, AND CONFIGURATION TO BE CONFIRMED AT ORDER PLACEMENT.