



**COMPUTER
CONVERSIONS
CORPORATION**

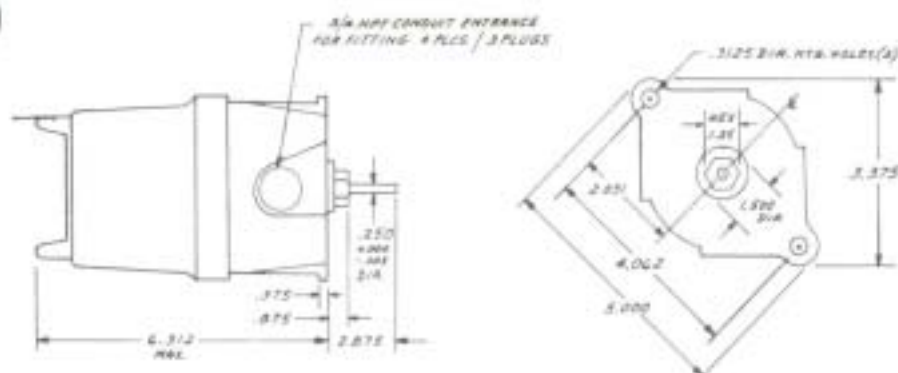
6 Dunton Court, East Northport, NY 11731 • (516) 261-3300

EXPLOSION-PROOF TRANSDUCER HOUSINGS

Computer Conversions Explosion-Proof Transducer Housings are designed to operate in hazardous environments requiring an Explosion Proof Enclosure. Suited with internal (Factory Installed) resolver-transducers; these units can be provided as part of an absolute and/or incremental encoder system. Most transducer cables only require six conductors, shielding is optional, and systems are capable of maintaining 1000' cable runs in severe RFI environments. Typical applications for these devices included spray finishing, grain elevators and liquid level, position feedback transducers. A selection of 3 different housings are offered to fulfill; Mill Duty, FM approval, or small size requirements. All X-Series transducer housings feature ball bearing mounted shafts and integral-flexible shaft couplings, for continuous operation up to 3000 rpms.



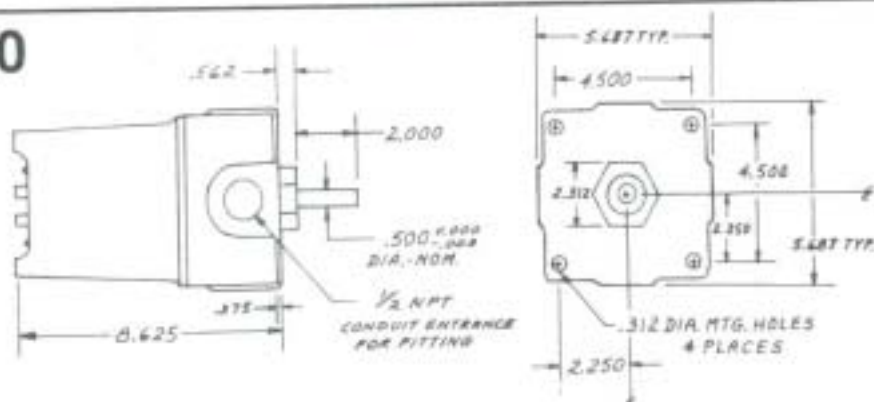
X90



MODEL # X90

- SMALL SINGLETURN HOUSING
- LOW COST-VOLUME RUN ITEM
- DESIGNED & TESTED FOR:
CLASS 1, GROUP D
CLASS 11, GROUPS E, F, & G
NEMA 7 & NEMA 9 COMPLIANCES

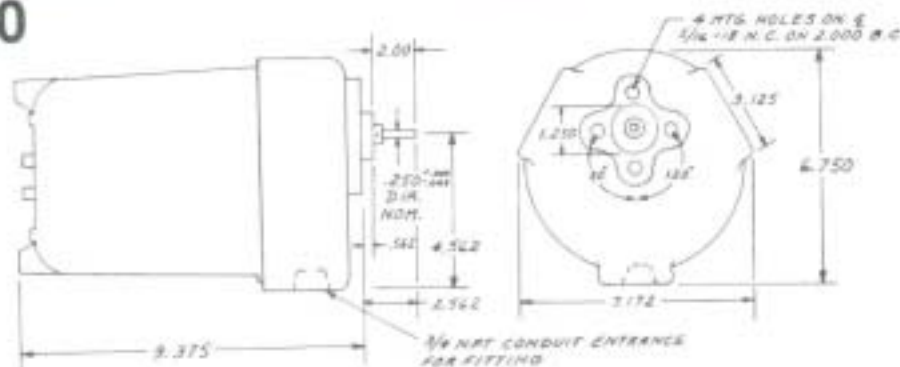
HX90



MODEL # HX90

- SINGLE OR MULTITURN HOUSING
- MILL DUTY - 1/2" DIA. SHAFT
- WATER RESISTANT - INDOOR
- DESIGNED & TESTED FOR:
CLASS 1, GROUP D
CLASS 11, GROUPS E, F & G
NEMA 7, & 9 COMPLIANCES

H4X90



MODEL # H4X90

- SINGLE OR MULTITURN HOUSING
- WEATHERPROOF-INDOOR & OUTDOOR
- FM APPROVED - SUITABLE FOR:
CLASS 1; DIV. 1 & 2, GROUPS B, C & D
CLASS 11; DIV. 1 & 2, GROUPS E, F & G
NEMA 7, 9 & 4 COMPLIANCES

SPECIFICATIONS

<u>MECHANICAL</u>	<u>X90</u>	<u>HX90</u>	<u>H4X90</u>
MAX. STARTING TORQUE (oz-in.)	1	1.2	2
MOMENT OF INERTIA (gm-cm ² .)	10	15	10
MAX. SLEW SPEED (RPM)	3000	3000	3000
MAX. SHAFT LOAD (lbs) AXIAL	5	50	5
(lbs) RADIAL	10	100	10
WEIGHT (lbs)	6	8.5	12

ENVIRONMENTAL ALL UNITS

SHOCK	36g for 11 msec.
VIBRATION	15g to 2000 Hz.
OPERATING TEMPERATURE	-20 to +105°C
RADIATION	1 x 10 ⁶ RADs.
ENCLOSURE	CAST ALUMINUM ALLOY

NOTES:

- 1) Isolation in accordance with NEC Section 501 (a) by sealing all conduit 1/2" size or larger is required for equipment to be permitted in several Group C and D atmospheres, request shaft sealing.
- 2) All specifications, compliances and approvals are for identification of design criteria only, and are subject to change without notice.
- 3) Computer Conversions Corporations' Liability shall, in no case, exceed the purchase price of those items purchased from Computer Conversions Corporation.

COMPUTER CONVERSIONS CORPORATION

6 DUNTON COURT • EAST NORTHPORT, N.Y. 11731 • 631 261-3300

REDUCE TO 3.00" ± .003.



COMPUTER CONVERSIONS CORPORATION
EAST NORTHPORT, N.Y. 11731

PART NO. [REDACTED]

SERIAL NO. 5L71

MAX. SPEED 3000RPM
TEMP. CODE T4A

26VAC MAX. 100ma. MAX.
NEC CLASS 2 CIRCUITS ONLY.
TELEMETERING EQUIPMENT FOR
USE IN HAZARDOUS LOCATIONS
CLASS I, GROUPS C AND D.

UL

WARNING: TO PREVENT
LISTED HAZARDOUS ATMOSPHERES DISCONNECT
FROM THE SUPPLY CIRCUIT BEFORE OPENING
ENCLOSURE. KEEP COVER TIGHTLY CLOSED WHEN
CIRCUITS ARE ALIVE. TO REDUCE THE RISK OF
IGNITION OF HAZARDOUS ATMOSPHERES,
CONDUIT RUNS MUST HAVE A SEALING
FITTING CONNECTION WITHIN
18 INCHES OF THE
ENCLOSURE

REVISIONS

DATE	DESCRIPTION	REV
4-24-71	ORIGINAL RELEASE	—
6-22-71	REVISED WORDING OF LABEL, NO DIM CHANGE	A
7-1-71	REVISE CLASS II TO RECD CLASS 2	B

COMPUTER CONVERSIONS CORPORATION

SCALE: 2:1	DESIGNED BY: MJD
DATE: 4-24-71	
HAZARDOUS ENVIRONMENT TRANSDUCER	

LABEL ARTWORK B5288
SHEET 1 OF 1



Underwriters Laboratories Inc.®

COMPUTER CONVERSIONS CORP
MR P WALDMAN
6 DUNTON CT
EAST NORTHPORT NY 11731

Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your Assignment.

WYMW July 22, 1991
Telemetering Equipment, For Use in Hazardous Locations
COMPUTER CONVERSIONS CORP, EAST E140223 (N)
NORTHPORT NY 11731

Class I, Groups C and D.
Encoder/Receiver.

Class I, Groups C and D.
Encoder/Receiver, Part No. HX may be followed by M or SM, followed by 90, followed by a two or three digit number, may be followed by S, followed by one or two letters.

6 DUNTON CT

LOOK FOR LISTING MARK ON PRODUCT

692022001

Underwriters Laboratories Inc.®

Q100155996
154

For information on placing an order for UL Listing Cards in a 3 x 5 inch card format, please refer to the enclosed ordering information.

UNDERWRITERS LABORATORIES INC.

An independent, not-for-profit organization testing for public safety

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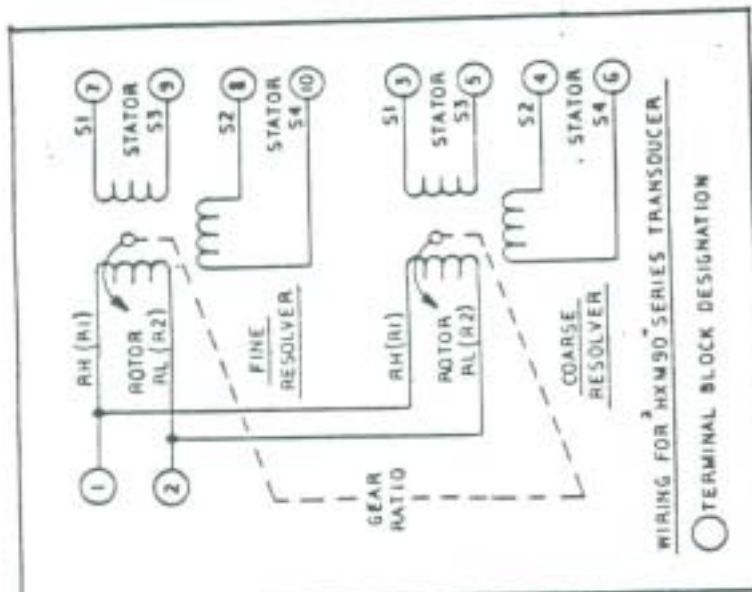
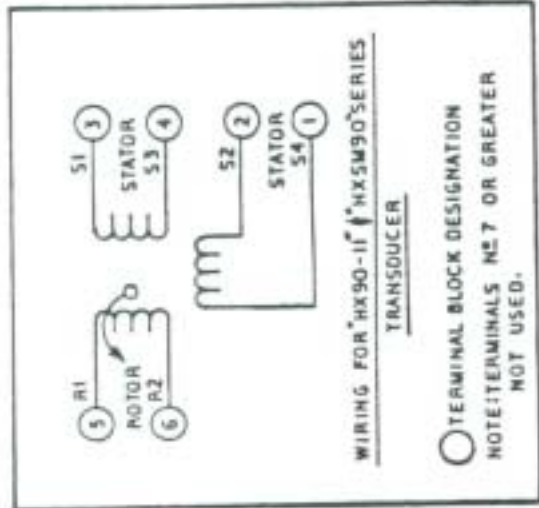
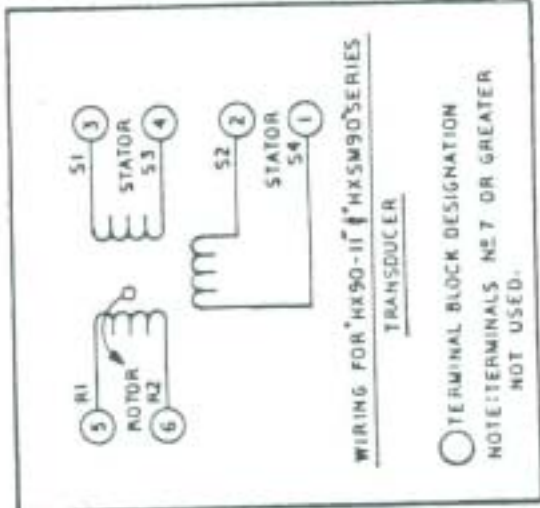
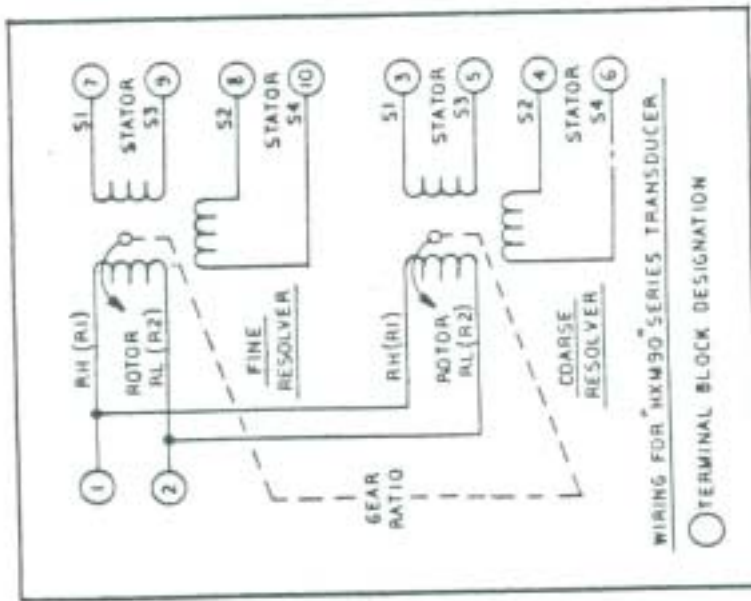
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REVISIONS

DATE	DESCRIPTION	REV
7-1-91	ORIGINAL RELEASE	—
7-2-91	ADDED NOTE TO LABEL	A



NOTES
1. REDUCE TO 64 %

COMPUTER CONVERSIONS CORPORATION		DATE: 7-1-91	APPROVED BY: MB
HAZARDOUS ENVIRONMENT TRANSDUCER		DATE: 7-1-91	APPROVED BY: MB
WIRING DIAGRAM		DATE: 7-1-91	APPROVED BY: MB
LABEL ARTWORK		DATE: 7-1-91	APPROVED BY: MB
SHEET 1 OF 1		DATE: 7-1-91	APPROVED BY: MB

SINGLE-TURN:**HX90-11**

SINGLE TURN
EXPLOSION PROOF
TRANSDUCER
SERIES

RESOLVER CODE:
"HB", "GT", ETC.
SEE DWG. A674-6

ASSY #B3021
L/M #A3021
WIRING #A3021-7

NOTE: SAME AS PART NUMBER
WITH "EP" SUFFIX

MULTI TURN, DUAL RESOLVER:

ASSY #B3021-14

L/M #A3021-14

WIRING #A3021-12

HXM90- -

MULTI-TURN, DUAL RESOLVER
EXPLOSION PROOF
TRANSDUCER SERIES

RESOLVER CODE:
"HB", "GT", ETC.
SEE DWG. A674-6

URNS, GEAR RATIO:
10, 64, 100 ETC.

NOTE: SAME AS "HXSM90"
EXCEPT HAVING 2
RESOLVERS.

MULTI-TURN, SINGLE RESOLVER:

ASSY #B3021-14

L/M #B3021-14

WIRING #A3021-18

HXSM90- -

MULTI-TURN, SINGLE RESOLVER
EXPLOSION PROOF
TRANSDUCER SERIES

RESOLVER CODE:
"HB", "GT", ETC.
SEE DWG A674-6

URNS, GEAR RATIO:
10, 64, 100 ETC.

NOTE: SAME AS "HXM90"
EXCEPT HAVING 1
RESOLVER.

COMPUTER CONVERSIONS CORP

6 DUNTON COURT - EAST NORTHPORT, N.Y. 11731 - 516 281-3300

SCALE: 

DATE: 5-3-91

DRAWN BY 

REVISED:

EXPLOSION PROOF TRANSDUCER
"HX90" SERIES

PART NUMBER & ORDERING GUIDE

DRAWING NUMBER

A3021-17

SHEET 1 OF 1

